DEPUTY CHIEF OF STAFF RESEARCH DEV AND ACQUISITION (A--ETC F/6 5/1 DEPARTMENT OF THE AIR FORCE JUSTIFICATION OF ESTIMATES FOR FISC--ETC(U) AD-A099 029 JAN 81 NL RDXM-AC-82-3 UNCLASSIFIED 1 or 4 AP A 099020

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Congress January 1981 Aircraft, Missile and Ot	her 6. PERFORMING ORG. REPORT NUMBER
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AUTHOR(e)	8. CONTRACT OR GRANT NUMBER(#)
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	In-House
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Washington, DC 20330	None
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SUPPLEMENTARY NOTES	
See also RDXM-DS-82-1 and RDXM-RD-82-2	
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KEY WORDS (Continue on reverse side if necessary and identify by block and Justification of Estimates	number)
Budget Activity Justification	
Aircraft Procurement	
Missile Procurement	
Other Procurement	
	number) to Congress for the procureme.
ABSTRACT (Continue on reverse side it necessary and identify by block n	
This volume contains the annual justification of aircraft, missiles and other equipment for	the fiscal year 1982.

# **DEPARTMENT OF THE**

# AIR FORCE

#### JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 1982 SUBMITTED TO CONGRESS JANUARY 1981,

Final rept.



APPROVED FOR PUBLIC RELEASE DISTRIBUTION UNLIMITED

> **AIRCRAFT PROCUREMENT, AIR FORCE** MISSILE PROCUREMENT, AIR FORCE OTHER PROCUREMENT, AIR FORCE

#### DEPARTMENT OF THE AIR FORCE JUSTIFICATION OF ESTIMATES FOR FY 1982 AND FY 1983

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Appropriation Language	Program & Financing	Object Classification.	Program & Financing						Introdutory Statement	Summary of Requirements	Budget Activity Justification:					Comparison of FY 1981 Program & Financing	Comparison of FY 1980 Program & Financing	Analysis of Unobligated Balances	Data Sheets:					
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#### A IRCRAFT PROCUREMENT, A IR FORCE

poses, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to the approval of title as required by section 355, Revised Statutes, as amended; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes including rents and transportation of things; \$9,469,900,000 to remain available for obligation until September 30, 1984 (5 U.S.C. 3109; 10 U.S.C. 2271-79; 2353, 2386, 2663, 2672, 2672a, 8012, 8062, 9501-02, 9505, 9531-32, 9741-42; 31 U.S.C. 649c, 718; 50 U.S.C. 451, 453, 455; Department of Defense Appropriation Act, 1981, additional For construction, procurement, and modification of aircraft and equipment, including armor and armament, specialized ground handling equipment and training devices, spare parts, and accessories therefor; the U.S. share of the NATO AWACS program; specialtion of structures, and acquisition of land without regard to section 9774 of title 10, United States Code, for the foregoing purized equipment, expansion of public and private plants, Government-owned equipment and installation thereof in such plants, arecauthorizing legislation to be proposed).

Aircraft Procurement, Air Force

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2. Airl:	COMPAN BITCHEST	72.200	70.600	K, 181, 500	1.044	76.641	7, 48 J. 04 9
	Other Bironett	43,000	100,100	94,600	40,440	85,850	101,584
	Inservice	1,555,860	1, 831, 555	1,966,600	1,327,561	1,636,272	1,914,706
ALTOT	Aircreft apares and repair parts Aircreft support squibment and facilities	1,102,100	2, 161, 345	3, 286, 200	1,075,685	1,452,668	2,729,154
Total direct	Total direct Reimbursable program (total)	269,		9, 469, 900 265, 538	7,966,784 232,720	8,658,712 312,288	200
10.00 Total		8,286,980	9,940,681	9,736,438	8, 199, 504	8,971,000	9,400,014
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17.00 Recovery	•				-15,224		} :: : : : : : : : : : : : : : : : : :
5					;		
	For completion of prior year budget plans		007		2,213,608	-2,090,473	-3,080,154
21.40 Reprogram	Averieble to finance new budget plans Reprograming from or to brior vash budget blan	-214.289	004		,	200	
	d balance transferred to other						
SACOUNTS		129,300	9,400	:	129,300	9,400	
5	nobingated dalence averiable, end of year: For completion of prior veer budget blane				2.090.473	3,080,154	3.396.578
24.40 Aveilebl	nce subsequent yes!					•	•
		9,400			9,400		
25.00 Uhobiigeted belence	d belence lepsing	30/ '00			0.00 / 0.00		
	Budget muthority	7,910,964	9,674,143	9, 469, 900	7,910,964	9,674,143	9,469,900
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40.00 Approprietion	# 1 1 4 7 # 1 1 0 1	7,965,240	9,674,143	9,469,900	7,965,240	9,674,143	9,469,900
	Appropriation rescinded	-10,000			-10,000		
41.00 Transfer	Transferred to other accounts	-75,076			-75,076	: : : : : : : : : : : : : : : : : : : :	: : : : : : : : : : : : : : : : : : : :
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	Appropriation (adjusted)	7,897,164	9,674,143	9, 469, 900	7,897,164	9,674,143	9,489,900
50.00 Rempprop		13,800	- 1		13,800	•	
!					7,835,635	8, 704, 462 9, 887, 644	9,133,476
74.40 Obligated belence, 77.00 Adjustments in exp 76.00 Adjustments in une	Obligated belance, and of year Adjustments in expired accounts Adjustments in unexpired accounts				-9,687,644 -104,969 -15,224	•	-10, 566, 562
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		2				6, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	,

264,930

312,288

832,720 \*\*\*\*\*\*\*\*\*

9,135,064

6,658,712 6,658,712

7,966,784 7,966,784 868,784

Total direct obligations

Direct obligations: Equipment

9.0

4

98

Reimbursable obligations: Equipment

31.0

89.

Total obligations

16 JAN 81

Object Classification (in thousands of dollars)
[960 sctuel 1981 est. 1982 est.

Aircraft Procurement, Air Force

Force	
Air	
Procurement	
Aircreft	

AF AIrer	Aircraft Procurement, Air Force	nt, Air Force	_			15 JAN 81
	Program and Financing (in thousands of dollars)	thousands of	dollars)		1978 Fiscal year program	year program
	Budga	Budget plan (amounts for procurement actions programed)	ota for	, 1	Obligations	# F F F F F F F F F F F F F F F F F F F
	1980 sctus	1981 est.	1982 est.	1980 actual	1981 ##t.	1982 est.
Program by activities:						
Direct; T. Compat Birormft				342,109		
B. Alrint Bironett				1,085		
6. Modification of inservice mircraft				82,838		
6. Aircreft speres and repair perts				48,765		
7. Aircraft support equipment and facilities				50,312		
	,					
Total direct	•			625, 109		
Melabireble progres (totel)				4,376		:
	, , , , , , , , , , , , , , , , , , , ,					
10.00 Total	:			629, 484		
Finencing: Defeating collections from:						
				1,260		
				16,282		
				4		
				-13,182	:	:
Unobligated belende aveilable, atert of year: 21.40 For completion of prior year budget plans				-735,419		
21.40 Reprograming from or to prior year budget plan	n -201,589					
28.40 Crobligated balance transferred to other solutions.	122,600			122,600		:
25.00 Unobligated belance lapsing	74,989			74,989	: : : : : : : : : : : : : : : : : : : :	
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40.00 Budget suthority	-4, 000			-4,000		

Program by activities:   Direct:   Combet aircraft   Combet airc		Budget plan (anounts of dollar Budget plan (anounts for procurement actions programed)	do(lars)	310, 901 14, 462 170, 963 170, 963 170, 9662	1979 Fiscal year program Obligations 1981 est. 1982 est. 1,195 57,709	00   10   10   10   10   10   10   10
fication gode 57-3010-0-1-051  Togram by activities:  Oninit alroraft  Other alroraft  A divinit alroraft  A Alroraft appares and repair parts  A Alroraft aupport equipment and facilities  Total direct Reimbureable program (total)  Total  Adjustment to py federal fund orders  Adjustment to py trust fund orders		# 1	drament dramed)	310,801 1,4646 1,49,282 109,862 170,996	310,628 1,1981 57,709	00 1 00 1 00 1 00 1 00 1 00 1 00 1 00
rogram by activities:  Died:  Combat sireraft  A. Alcilite alreaft  B. Modification of inservice alreaft  A. Alreaft spares and repair parts  7. Alreaft support equipment and facilities  Total direct  Reimbursable program (total)  Total  Financing:  G#setting collections from:  Adjustment to py federal fund orders  Adjustment to py trust fund orders			100	310, 901 310, 901 1, 462 149, 262 170, 996	310,628 1,195 57,709	9 1 9 1 9 1
rogram by activities: Direct: 1. Combat aircraft 2. Airlits aircraft 4. Other aircraft 5. Aircraft spares and repair parts 7. Aircraft support equipment and facilities 7. Aircraft support equipment and facilities 7. Total direct Reimbureable program (total) 7 Total Granting collections from: Granting collections from: Adjustment to py federal fund orders Adjustment to py trust fund orders	•			010, 010, 046, 146, 149, 262, 1709, 862	310,628 1,195 470 57,709	
Combat aircraft  2. Airlift aircraft  3. Modification of inservice aircraft  6. Aircraft spares and repair parts  7. Aircraft support equipment and facilities  Total direct Reimbureable program (total)  Total Finencing: Offsetting collections from: Offsetting collections from: Adjustment to py federal fund orders Adjustment to py trust fund orders				310,901 646 149,282 109,886 170,986	310,628 1,195 1,195 57,709	
R. Airlift alroraft  4. Other alroraft  5. Modification of inservice alroraft  6. Aircraft appers and repair parts  7. Aircraft support equipment and facilities  Total direct Reimbureable program (total)  Total Finencing: Offsetting collections from: Offsetting collections from: Adjustment to py federal fund orders Adjustment to py trust fund orders				1 4 9 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	201, 1 201, 1 201, 1 201, 1 201, 1	
4. Other alcomete  6. Modification of inservice aircraft  6. Aircraft spares and repair parts  7. Aircraft support equipment and facilities  Total direct  Reimbursable program (total)  Total  Financing:  Gfsetting collections from:  Adjustment to py federal fund orders  Adjustment to py trust fund orders  Adjustment to py trust fund orders	•			149,282	57, 709 124, 655	
Aircraft appares and repair parts  Aircraft appares and repair parts  Aircraft aupport equipment and facilities  Total direct Reimbursable program (total)  Total Financing: Gfsetting collections from: Adjustment to py federal fund orders Adjustment to py frust fund orders Adjustment to py trust fund orders		1 1 1 1 1 1 1		170, 966	124. 655	
7. Aircraft support equipment and facilities Total direct Reimbursable program (total)  Total Financing: Gffsetting collections from: Adjustment to py federal fund orders Adjustment to py trust fund orders Adjustment to py trust fund orders		- 1		170,996		
Total direct Reimbursable program (total) Total Finencing: Offsetting collections from: Adjustment to py federal fund orders Adjustment to py trust fund orders	1 - 1 - 1 - 1				127,479	
Total direct Reimbursable program (total) Total Financing: Offsatting collections from: Adjustment to py federal fund orders Adjustment to py trust fund orders				470		
Reimbursable program (total)  Total Financing: Gfasting collections from: Adjustment to py faderal fund orders Adjustment to py trust fund orders				707	062, 330	
Total Financing:  @ffacting collections from:  Adjustment to py faderal fund orders  Adjustment to py trust fund orders				090,001	04.	
Finencing:  Offsetting collections from:  Offsetting collections from:  Adjustment to py federal fund orders  Adjustment to py trust fund orders				849,699	623.814	
Finencing: Offsetting collections from: Adjustment to py federal fund orders Adjustment to py frust fund orders						
ortwatting collections from Adjustment to py federal fund orders Adjustment to py frust fund orders Adjustment to py frust fund orders						
Adjustment to by trust fund orders				17,990		
				-23,918		
AG_CARTE TO TOT 1 TO				-63		
Recovery of prior year obligations, obligan	ç			-2,042		
Chocaligates on minore describing, will of year. Mon composed by on the year budget of both				-1,478,189	-623,814	
				-13,800		
Reprogreming from or to prior year budget plan	get plen -12,700	:			: : : : : : : : : : : : : : : : : : : :	
	6,700			6,700	•	•
Unobligated belance available, end of year	:			623, 814		
	13,800	- 1		13,800	. 1	
40.00 Budget euthority	-6,000			-6,000		

Air Force	
Procurement,	
Aircraft	

	Program and Financing (in thousands of dollars)	inencing (in	thousands of	dollers)		1980 Fiscal year	ear program
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Identification code	on cod● 57-3010-0-1-051	1990	, ,	1982 est.	1990 Botus	1981 68t.	1992 est.
0.100.10	τ	0 700			3, 521, 702	184,611	288,637
-	Combet minoreft	72, 200			113	40,246	31,841
œ́		43,000			38,978	000	787
4 Đ €	Other Bircheft Modification of Inservice B Aircheft sperses and repair	1,555,880			1,090,441 917,068 1,125,234	105,344	79,688
	Aircreft support aguipment and facilities	404 (84%)	. 1	. 1	) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (		014 410
		8,017,564 259,416			6, 598, 535	131,740	16, 801
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10.00	Total	8,286,980					•
0	defeatting collections from:	-45 378			-45,376		
11.00	のできる。一手にひなる。	-329,311			-329,311		
	のないは、そのでは、そのでは、これ	-727			•		
à	Con-receive voc con Unoblicated balance svellable, start of veer:					-1,466,659	-670,401
21.40	For gompletion of prior year budget plans		-9.400			-8,400	
•	AVELIEDIS to finance her bidder biens					000	
23.40			9,400			,	
ร์	Eddocorres Uncoboligated belance available, end of year: Uncoboligated belance of prior year budget plans				1,466,659	670,401	
24.40	Avellable to finance subsequent year budget	9,400			9,400	. 1	. !
9	Total tentral	7,920,964			7,920,964		
-			1				
Brd	Budget euthority:	7,965,240			7,965,240		
	u	-75,076			17,000		
42.00	Trensferred from other accounts	200 1	. 1				
	(petan) do te lacendo	7,907,164			7,907,164		
00.5		C C C					

Air Force	
Procurement,	
Aircraft	

15 JAN 81

		Program and Financing (in thousands of dollars	thousands of	dollars)		1981 Fiscel year progrem	/ear progrem
Identification code	57-3010-0-1-051		Budget plan (amounts for procurement actions programed)	ste for gramed)	1 1 1 1 1 1 1 1 1 1 1 1	Obligations	4 4 1 1 1 1 1 2 4 1 1 1 1 1 1 1 1 1 1 1
		1980 ectuel	1980 sctus) 1981 est	1982 est.	1980 actual	1981 met	1982 est.
Program by activities: Direct:	/lties:						
1. Combat	Combat mircraft		3,981,100			3,462,946	499 CI3
2. Airlift	t minoreft		70,800			35, 200	20,000
4. Other	■iror##t		100,100			81,825	18, 257
5. Modific	DETION OF INSENTICE BINCHBET		1,831,555			1,321,581	220,384
G. AIrcrei	ft speres and repair parts		2, 161, 345			1, 222, 472	259,366
7. Aircra	Aircraft support equipment and facilities		1,529,243			1,247,837	271,580
				,			
Total direct	) ot		9,674,143			7,371,861	1,288,600
	大の一番でにつき回じしの「ひっちなつきょ (たらたは))	. 1	266, 538			128,067	49, 135
10.00 Total			9,940,681			7,550,928	1,337,738
Financing: Offsetting	DO   LOCAL ON FROM:						
	***		-49,800			-49,800	
	9		-216, 538			-216,538	
21.40 Unobligated balance 24.40 Unobligated balance	belance evailable, start of year belance evailable, end of year	1				2,389,753	1,052,018
40.00 Budget	Budget authority		9,674,143			9,674,143	1

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M.	Airon	Aircraft Procuroment, Air Force	nt, Air Force				15 JAN 81
		Program and Financing (in thousands of dollars)	thousands of	dollars)	:	1982 Fiscal year progrem	/ear progrem
	57-3010-0-1-051	Budge procuremen	Budget plan (amounts for procurement actions programed)	its for gramed)		Obligations	P 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
		1980 actual	1980 actual 1981 est.	1982 est.	1980 actual	1981 est	1982 est.
Program by activities: Direct:	/(1000:						
1. Combat	Combat mircraft			2, 191, 300			1,703,399
				94,600			82,260
O. Modifi	Modification of inservice sincraft			1,966,600		· · · · · · · · · · · · · · · · · · ·	1,490,86
	Aincreft spenes and nepsin pents Aincreft support addingst and fed; [it]es			3,286,200			2,390,100
Total direct	•ct			9,469,900			7, 191, 974
Relabilitation of describers	B brogrem (total)	-		266, 538	<b>\</b>		199,904
10.00 Total				9, 736, 438			7,391,878
Ĩ.	nencing: Offsetting collections from: Faders funds			9.00			04.
				-216, 538			-216,538
14.00 Non-federal source: 24.40 Unobligated balance	Non-federal sources Jobligated balance available, end of year			- 500			2,344,560
40.00 Budget	Budget sutherity			9,469,900			9, 469, 900

(In Thousands of Dollars)
Program Requirement - FY 83 ... \$10,580,300
Program Requirement - FY 82 ... 9,469,900
Program Requirement - FY 81 ... 9,674,143
Program Requirement - FY 80 ... 8,017,564

#### PART I PURPOSE AND SCOPE

flight training simulators. Management of the aircraft program is facilitated by collecting, in a single appropriation, all funds It also provides for investment spares and repair parts including spare engines, replenishment spares, and other support In addition, funds are provided for the procurement of service life, improve reliability/supportability, and enhance operational effectiveness, and for the U.S. share of the NATO AWACS This appropriation provides for procurement of aircraft, for modification of in-service aircraft to improve safety, extend for the prime aircraft weapon system and related specialized ground handling and test equipment. equipment to include aerospace ground equipment and industrial facilities.

aircraft, airlift aircraft, trainer aircraft, and other aircraft; modification of in-service aircraft; aircraft spares and repair The activities are: In the activity justifications which follow, additional details are provided by budget activity. parts; aircraft support equipment and facilities; and the reimbursable program.

Each of the four aircraft activities consists of the following elements, as applicable, which together constitute the weapon

- includes airframe, engines, communications and electronics equipment, photographic equipment, armament, instruments, auxiliary a. Flyaway Cost - This element consists of the complete aircraft ready to be flown away from the manufacturer's plant and equipment installed in the aircraft, and certain non-recurring costs for tooling and other start-up costs.
- tem, or its components; special training devices applicable to a specific weapon system such as mobile training units, flight simulators, instrument trainers, and air navigation trainers; and procurement of engineering handbooks, manuals, and other technical data identified with the specific aircraft being procured. Requirements in these categories are established to provide for b. Peculiar Support Equipment, Training Devices, and Technical Data - This element includes equipment requirements which are applicable to a specific weapon system such as specialized equipment for maintenance, repair and test of a weapon system, subsysscheduled delivery of the support equipment in phase with deliveries of the weapon system.

c. Credits from Advance Procurement Prior Year - This element identifies assets applied to a program from advance procurement provided in a prior year for items having a longer lead time than the airframe.

d. Advance Procurement Current Year - This element identifies requirements associated with follow-on aircraft programs which have a longer procurement lead time than the airframe and which therefore must be procured in advance of the airframe.

## PART 11 JUSTIFICATION OF FUNDS REQUESTED

The program to be financed with the appropriation for fiscal year 1982 includes \$2,191.3 million to procure additional modern aircraft. The fiscal year 1983 program includes \$2,597.2 million for aircraft. combat aircraft, \$172.9 million for airlift aircraft, and \$468.4 million for other aircraft.

The fiscal year 1982 estimate also provides \$1,966.6 million for modification and modernization of in-service aircraft necessary for safety-of-flight, extension of service life, and to incorporate operational improvements after an alreraft has entered service. The program is designed to maintain the Air Force aircraft inventory at the most modern configuration level at minimum service. The program is designed to maintain the Air Force aircraft inventory at the most modern configuration level at minimum service. The program is designed to maintain the Air Force aircraft inventory at the most modern configuration level at minimum service. The fiscal years 1980 program is \$2,044.2 million.

centrally procured and managed, investment-type spare components and repair parts associated with the procurement of new aircraft, the modification program, peculiar and common aerospace ground equipment programs, and the replenishment spares category, which provides for Air Force operational, maintenance, and overhaul programs. For fiscal year 1982, the request amounts to \$3,286.2 Aircraft spares and repair parts are also financed under this appropriation. The spares and repair parts activity includes The fiscal year 1983 program is \$2,880.1 million.

The aircraft support equipment and facilities activity provides for common aerospace ground equipment, industrial facilities, war consumbles, other charges, and the U.S. share of NATO AWACS. The program requirements for fiscal year 1982 are \$1,931.2 millon. lion as compared to \$1,529.2 million in fiscal year 1981. The fiscal year 1983 program is \$2,417.5 million.

The requirement for the reimbursable program for fiscal year 1982 is \$266.5 million. This program provides for those aircraft and related items which must be procured to satisfy customer orders.

\*

SUMMARY OF REQUIREMENTS	NTS FY 1980 Actual	(tr Thousar FY 1981 Estimate	(in Thousands of Dollars) FY 1981 FY 1982 Estimate Estimate
Combat aircraft	\$3,994,950	\$3,981,100	\$2,191,300
Airlift aircraft	72,200	70,800	•
Other aircraft	43,000	100,100	94,600
Modification of in-service aircraft	1,555,880	1,831,555	1,966,600
Aircraft spares and repair partsAircraft	1,102,100	2,161,345	3,286,200
Aircraft support equipment and facilities	1,249,434	1,529,243	1,931,200
TOTAL DIRECT PROGRAM	\$8,017,564	\$9,674,143	89,469,900
Reimbursable program	269,416	266,538	266,538
TOTAL PROGRAM REQUIREMENTS (CURRENT)	\$8,286,980	\$9,940,681	\$9,736,438
Less: Portion of program to be obligated in subsequent fiscal years	1,466,659	2, 389, 753	2,344,560
Plus: Obligations incurred against prior year program funds	1,379,183	1,420,072	2,008,136

TOTAL OBLIGATIONS------

\$9,400,014

\$8,971,000

\$8,199,504

SUMMARY OF PROGRAM REQUIREMENTS	(in Thousands of Dollars) FY 1983 Estimate
Combat aircraft	\$2,597,200
Airlift aircraft	172,900
Other aircraft	468,400
Modification of in-service aircraft	2,044,200
Aircraft spares and repair parts	2,880,100
Aircraft support equipment and facilities	2,417,500
TOTAL DIRECT PROGRAM	\$10,580,300

(in Thousands of Dollars)
Program Requirement - FY 83 ... \$2,597,200
Program Requirement - FY 82 ... 2,191,300
Program Requirement - FY 81 ... 3,981,100
Program Requirement - FY 80 ... 3,994,950

#### ACTIVITY: Combat Aircraft

#### PART I PURPOSE AND SCOPE

This activity provides for the procurement of new aircraft, associated flight simulation devices, and other peculiar training and support equipment to continue modernization of U.S. combat forces and improve the efficiency of training programs. Combat aircraft are required to attain and maintain air superiority, interdict enemy supply lines, provide reconnaissance of enemy forces, and furnish close air support to ground forces. The aircraft can be used to counter a variety of threats and offer options of response ranging from the use of diversified conventional weapons through, in the case of U.S. forces, a variety of nuclear weapons.

The FY 1982 and FY 1983 programs include funds for the procurement of F-15, F-16 (Air Combat fighter), and E-3A (AWACS) air-The programs also include funds for procurement of flight simulators for F-16 aircraft.

## PART II JUSTIFICATION OF FUNDS REQUESTED

The total FY 1982 and FY 1983 fund requirements by FY, for procurement of combat aircraft, related support items, and advance procurement funding in support of the following year's program are: FY 1982 - \$2,191.3 million; and FY 1983 - \$2,597.2 million. Details are as follows:

#### A-10 (FY 1982 - \$9.8 million):

anti-tank and anti-mechanized vehicle operations in close proximity to friendly ground forces. The firepower, survivability, and long-loiter capability of the A-10 provide an improved close air support capability. The A-10 initial operational capability was achieved in Oct 1977, three months ahead of schedule. The FY 1982 request is for procurement of ground support equipment; no aircraft procurement is requested for FYs 1982 and 1983. The A-10 attack aircraft is specifically designed for the close air support role. It is a single-seat, t⊮in turbofan powered, A-10 meets the requirement to provide close supporting fire, armed escort, and armed reconnaissance in battle areas involving fixed wing, subsonic aircraft capable of carrying a versatile ordnance load and is armed with one 30MM rapid fire gun system.

# F-15A/B/C/D (FY 1982 - 30 aircraft, \$837.0 million; FY 1983 - 18 aircraft, \$530.1 million):

1980s. It has the maneuverability, armament, and fire control needed to surpass the capabilities expected from Soviet aircraft in the counter air mission. It is characterized by high thrust-to-weight and low wing loading for maximum acceleration and maneuver-ability. The main purpose of the F-15 is to provide the Air Force with an aircraft which can defeat Soviet-built fighters of the The basic take-off thrust-to-weight ratio of The F-15 is a twin engine (P&W F100), single crew (B/D is two-crew), fixed swept wing, advanced tactical fighter designed for the F-15 is greater than one-to-one and will permit the F-15 to out-climb, out-accelerate and out-turn any known or projected that period. The F-15 has replaced the F-4 as the primary air superiority aircraft. threat during this time period.

# F-16 (Air Combat Fighter) FY 1982 - 96 aircraft, \$1,344.5 million; FY 1983 - 96 aircraft, \$1,522.9 million):

delivery capability. The F-16 will also enable modernization and standardization of equipment among those allied countries which minimum costs. The design characteristics of the F-16 are such as to permit high sortie rates with rapid turn around; minimum The F-16 is a new multi-purpose fighter incorporating advanced technology features proven in the Lightweight Fighter (LWF) The goai is to deploy a fighter which can perform an acceptable spectrum of tactical air warfare tasks at manpower/logistics burden; and exceptional air combat maneuvering performance, coupled with a potent air-to-ground weapons choose to replace their aging tactical fighter forces with F-16s. prototype program.

# E-3A (AWACS) (FY 1982 - 0 aircraft, \$0; FY 1983 - 4 aircraft, \$544.2):

(AWACS) can operate as a self-contained, survivable force management center, or an adjunct to an established ground control net. Its distinguishing technical feature is the capability for long range detection and tracking of airborne objects operating at high strategic defensive operations. The airborne platform, and modified Boeing 707 aircraft, is common for both types of operation with interchangeability for the two missions being easily accommodated by changing the control processor software. The E-3A The E-3 (AWACS) provides an airborne surveillance, command, control, and communications system for use in both tactical and or low altitudes over both land and water for extended periods. Program Requirement - FY 83 ... \$172,900
Program Requirement - FY 82 ... 0
Program Requirement - FY 81 ... 70,800
Program Requirement - FY 81 ... 72,200

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ACTIVITY: Airlift Aircraft

#### PART I PURPOSE AND SCOPE

This activity provides for the procurement of new aircraft, associated flight simulators, and support items to continue improvement of the U.S. airlift forces.

## PART II JUSTIFICATION OF FUNDS REQUESTED

No funds are requested for FY 1982. The FY 1983 request is for the initiation of C-X procurement. The C-X will be capable of carrying outsized cargo, such as heavy mechanized Army equipment, over intercontinental distances, as well as being capable of moving the equipment within the theater of operation. This is a major initiative to improve rapid deployment capability. Several designs are being considered during full scale engineering development which began in FY 1981.

(in Thousands of Dollars)
Program Requirement - FY 83 ... \$468,400
Program Requirement - FY 82 ... 94,600
Program Requirement - FY 81 ... 100,100
Program Requirement - FY 80 ... 43,000

ACTIVITY: Other Aircraft

#### PART I PURPOSE AND SCOPE

This activity provides for the procurement of TR-1, E-4B, and Airborne Launch Control Aircraft in FYs 1982 and 1983.

## PART II JUSTIFICATION OF FUNDS REQUESTED

# TR-1 (FY 1982 - 4 aircraft, \$94.6 million; FY 1983 - 4 aircraft, \$105.9 million):

U.S. aircraft capable of long loiter, standoff surveillance from altitudes above 60,000 feet with an electronic sensor horizon of over 300 NM. Equipped with the latest electronic sensors being developed in other programs, the TR-1 will provide U.S. and Allied ground and air forces an effective battlefield surveillance system into the 1990s. The TR-1 is a variant of the highly capable U-2k aircraft currently in the strategic reconnaissance inventory .... the only

# E-48 (FY 1983 - 1 aircraft, \$286.0 million):

The E-4 Advanced Airborne Command Post is a survivable command and control facility designed to support the National Command Authority and the Commander in Chief, Strategic Air Command during all phases of a nuclear conflict. Extensive communications equipment is provided to support the requirement to be capable of assessing the situation, providing information for decision making, disseminating direction to nuclear forces, and accomplishing for monitoring and management.

# Airborne Launch Control Aircraft (FY 1983 - \$76.5 million):

rying the necessary command, control and communications equipment. One ALCC is to be continuously airborne with a backup on strip alert. The aircraft will be able to perform its command and control functions for fourteen days from austere airfields. The M-X helicopter will carry personnel and equipment to remote, widely dispersed M-X missile sites. phases of a nuclear conflict. The ALCC will be a strategic aircraft, designed for survivability and endurance and capable of car-The M-X Airborne Launch Control Center (ALCC) is the primary means of M-X command and control during trans and post attack

Program Requirement - FY 83 ... \$2,044,200
Program Requirement - FY 82 ... 1,966,600
Program Requirement - FY 81 ... 1,811,555
Program Requirement - FY 80 ... 1,555,880

ACTIVITY: Modification of in-Service Aircraft

#### PART I PURPOSE AND SCOPE

This budget activity provides for modification and modernization of in-service aircraft, training devices and support equipment necessary for safety, extension of service life, and to incorporate operational improvements after an alrcraft has entered service. The program is designed to maintain the Air Force aircraft inventory at the most modern configuration level at the minimum cost.

### PART 11 JUSTIFICATION OF FUNDS REQUESTED

over hostile forces, to extend the active service life of aircraft, and to keep abreast of changing mission requirements. To ensure maximum safety for the aircraft and crews and to enhance capabilities of aircraft in a combat environment, priority modifications are closely examined and priorities established so that only the most essential are accom-Modifications are necessary to enable the strategic offense, defense, tactical, and support forces to maintain superiority plished with the funds available. The FY 1982 program, to a large extent, consists of follow-on requirements for previously initiated modifications. Particularly significant, is the requirement to provide long range cruise missile carriage for the B-526 and the companion requirement to modernize the offensive avionics system on the B-526/H aircraft. Funds are also included in FY 1982 to procure long-lead hardware to reengine KC-135 aircraft with new fuel efficient, high by-pass turbo fan engines. The FY 1982 funds are required to preserve our production option pending completion of the first aircraft now underway. Other significant efforts impacting the program

- (1) Increasing the strategic airlift capability.
- (2) Updating the penetration and electronic defense capabilities of various weapon systems to improve survivability in a hostile environment.

- (3) Upgrading C3 equipment on the National Emergency Airborne Command Post to the advanced configuration.
- 4) Provision of tactical support jamming capability.
- (5) improvement in Peacetime Material Readiness through replacement of unreliable hardware with new state of the art equipment, thus increasing maintainability/reliability and decreasing support costs.

with normal maintenance programs to the maximum extent possible. Complex modifications are installed at Air Force depots or contractor facilities, concurrent with programmed depot maintenance. Where the installation tasks are less complex or require a Aircraft modification kits are procured on a phased basis, lead time away from installation, which is scheduled concurrent relatively small number of man-hours, they are accomplished in the field by assigned personnel or specialized teams dispatched from the depot or provided by contractors.

\$3.8 million; Electronic Countermeasure Power Management in the amount of \$9.8 million; improved reliability of the defensive fire B-52 (FY 82 - \$511.6 million; FY 83 - \$505.9 million). The FY 1982 program includes: follow-on modifications for Offensive Avionics modernization, long range Air Launched Cruise Missile carriage, and Observable Difference System, in the amount of \$334.7 The FY 1982 program includes: follow-on modifications for Offensive million; Tail Marning capability in the amount of \$16.1 million; Electronic Countermeasure Transmitter update in the amount of tion, the program includes \$12.7 million to initiate a modification to provide a new monitor and control system for nuclear weapons; \$17.8 million to initiate avionics improvements on the B-52D; and \$82.6 million to provide nuclear hardening. control system in the amount of \$19.3 million; and \$14.8 million for various reliability/ maintainability improvements.

The FY 1983 program will continue programs previously started, and initiate new programs to provide reliability/ maintaina~ bility improvements for the B-52D primary cockpit procedures trainer.

The FY 1982 program initiates a modification to provide a new nuclear FB-111 (FY 82 - \$2.7 million; FY 83 - \$3.7 million).

The FY 1983 program completes this e'fort.

improvements. The FY 1982 program also provides \$11.3 million for continuation of the reliability improvement to the X Band Tran-F-106 (FY 82 - \$37.0 million; FY 83 - \$43.6 million). The FY 1982 program provides \$15.0 million to initiate a program to upgrade the radar; \$4.7 million to replace the existing instrument Landing System; and \$3.9 million of other new reliability sistor Assembly and \$2.1 million for continuing other reliability improvements.

The FY 1983 program continues efforts started in previous fiscal years and initiates a reliability improvement to the primary mission trainer. A-7 (FY 82 - \$25.7 million; FY 83 - \$16.5 million). The FY 1982 program includes \$11.3 million for follow-on procurement of a new digital scan convertor and \$8.6 million to continue implementation of various improvements to the TF-41 engine. In addition, the program includes \$5.8 million to initiate new reliability modifications to the TF-41 engine.

The FY 1983 program continues modifications previously started.

craft consistent with reliability changes to be incorporated into aircraft on the production line, and \$28.2 million for an Iner-The FY 1982 program includes \$23.7 million to modify operational airtial Navigation System (INS) for operational aircraft as a follow-on to FY 1981. A-10 (FY 82 - \$51.9 million; FY 63 - \$76.2 million).

The FY 1983 program provides \$18.6 million for continuation of the aircraft update efforts; \$15.8 million for initiation of the Turbine Engine Monitoring System; \$12.4 million for initiation of the SEEK TALK Jam Resistant Radio program; and \$29.4 million to continue the INS procurement.

navigation system and weapons delivery system on the F-4G Wild Weasel; and \$8.0 million for various safety and reliability improadditional AAD-5 infrared Reconnaissance Sensors; \$7.5 million to provide GBU-15 weapons carriage on Pave Tack equipped aircraft; modifications as follows: \$1.4 million for the Chaff and Flare Dispenser capability; \$25.5 million to upgrade the radar warning receiver on the F-4E; \$.5 million for an altitude line improvement to the APQ-120 radar; \$11.2 million to replace the inertial vements. In addition, \$11.8 million is included for initiation of an improved secure voice capability; \$9.7 million to procure in FY 1982, funds are requested for follow-on costs of previous 124.5 million for ne\* safety modificarions; and \$1.4 million for various simulator improvements. F/RF-4 (FY 82 - \$101.5 million; FY 83 - \$108.0 million).

The FY 1983 program continues previously initiated modifications.

The FY 1982 program provides \$3.8 million for safety and reliability F-5 (FY 82 - \$3.8 million; FY 83 - \$2.7 million). improvements.

The FY 1983 program continues improvements begun in previous years.

aircraft to standard configuration compatible with changes being incorporated into aircraft on the production line; continuation of the improved ALR-56 countermeasures capability in the amount of \$2.9 million; \$1.1 million to continue procurement of a cockpit IV sensor/airborne video tape recorder capability, and \$15.0 million is included to continue a modification to improve reliability F-15 (FY 82 - \$45.3 million; FY 83 - \$81.7 million). The FY 1982 program is comprised of \$26.3 million to modify operational of the UHF radio and TACAN and provide a VHF radio and secure voice capability. The FY 1983 program consists of continuation of the aircraft update effort, modifications previously initiated and initiation of an anti-satellite defense capability. F-16 (FY 82 - \$60.0 million; FY 83 - \$69.1 million). • The FY 1982 program of \$60.0 million is to continue the update of operational aircraft to a standard configuration compatible with changes being incorporated into aircraft on the production line.

The FY 1983 program continues the update of operational aircraft and initiates the SEEK TALK anti-jam communications capabil-

\$3.0 million to continue a secure voice capability; \$23.3 million for correction of various mission limiting engine and avionics deficiencies previously begun; and an The FY 1982 program includes: additional \$7.5 million to initiate new reliability improvements. F-111 (FY 82 - \$33.8 million; FY 83 - \$69.9 million).

Continuation of previously initiated modifications is provided for in the FY 1983 program plus initiation of various reliabliity and safety modifications on the engine and airframe in the amount of \$6.8 million. EF-111 (FY 82 - \$260.8 million; FY 83 - \$198.9 million). The FY 82 program continues procurement of a modification to incorporate an electronic countermeasure subsystem, the ALQ-99, Into 42 F-111A aircraft. The EF-111 will provide the capability to accomplish all tactical jamming support missions, i.e., barrier/standoff, close air support and penetration/escort jamming. The F-111 operational performance capabilities will be preserved by installing the ALQ-99 in the weapon bay area and other subsystems will be installed internally. The EF-111A is the replacement for the EB-66 which was phased out at the end of FY 1974 due to age and obsolescence of the jamming equipment.

The FY 1983 program completes the production buy program. The last modified aircraft delivers in FY 1986

TR-1 (FY 83 - \$7.5 million). The FY 1983 program initiates modifications to enhance the capability of the TR-1 reconnais-

C-5A (FY 82 - \$214.6 million; FY 83 - \$207.2 million). The FY 1982 program continues the production phase of the wing replacement modification necessary to achieve an increased 30,000 flying hour service life in the amount of \$192.5 million; \$14.9 million to continue procurement of a replacement of the unreliable weather radar with a highly reliable commercial weather radar; \$3.3 million to continue procurement of a fuel savings advisory system to allow more efficient use of fuel; \$2.9 million for various reliability and safety improvements; and \$1.0 million to initiate a program to provide secure voice capability.

the FY 1983 program continues the wing replacement modification, and other previously initiated modifications.

C-141 (FY 82 - \$52.9 million; FY 83 - \$35.0 million). The FY 1982 program provides \$8.7 million to continue the digital flight data recorder; \$7.9 million for various reliability and safety modifications; \$21.5 million to continue procurement of a fuel savings advisory system to allow more efficient use of fuel; \$11.1 million to continue upgrading the primary crew trainer; and \$3.7 million to initiate a secure voice capability.

The FY 1983 program continues modifications initiated in previous fiscal years and provides \$12.1 million to procure deployable crisis management capability. I-38 (FY 82 - \$8.3 million; FY 83 - \$4.5 million). In FY 1982, funds are requested for modifications as follows: \$5.3 million for a safety improvement to the ejection seat; \$1.4 million for a fuselage dorsal longeron beefup; and \$1.6 million for other structural and reliability improvements.

The FY 1983 program continues modifications initiated in previous fiscal years.

C-130 (FY 82 - \$94.9 million; FY 83 - \$91.2 million). The FY 1982 program continues procurement of a wing modification to extend the service life in the amount of \$67.5 million and \$9.6 million for various sefety improvements; provides \$4.6 million for modification to conserve fuel by adding afterbody strakes to reduce drag in the amount of \$4.4 million; and initiates new safety and reliability improvements in the amount of \$7.1 million. initiation of secure voice capability; \$1.7 million for continuation of Chaff/Flare countermeasures dispensers; initiates a new The FY 1982 program continues procurement of a wing modification to

The FY 1983 program continues the wing modification and other efforts begun in previous fiscal years.

million and \$30.0 million for long-lead hardware to preserve the KC-135 re-engine option pending completion of the first aircraft. In addition, for the specialized EC-135 command and control aircraft, the FY 1982 program provides \$11.9 million to initiate a C-135 (FY 82 - \$143.3 million; FY 83 - \$132.2 million). The FY 1982 program includes: \$34.4 million for extention of air-craft service life by reskinning the lower wing surface; a modification to provide a VHF AM/FM radio capability for \$3.8 million, a fuel savings advisory system in the amount of \$34.9 million, various reliability and safety improvements in the amount of \$8.6 program to provide 100 kilowatt transmitters to enhance signal output; \$10.4 million for increased airborne retargeting capability; \$7.8 million for electromagnetic pulse hardening; and \$1.5 million for completion of a secure voice capability. The FY 1983 program continues funding of modifications initiated in previous fiscal years and also initiates improvements to the Minimum Essential Emergency Communication Network (MEECN) in the EC-135's in the amount of \$.8 million. E-3A (FY 82 - \$17.3 million; FY 83 - \$92.1 million). The FY 1982 program includes \$10.0 million to update operational air-craft to a standard configuration compatible with changes being incorporated into aircraft on the production line; \$5.8 million to initiate a communication enhancement including the Joint Tactical Distribution System; and \$1.5 million to initiate Electronic Counter-Counter measures improvements.

The FY 1983 program continues programs begun in prior fiscal years.

E-4A (FY 82 - \$112.4 million; FY 83 - \$12.6 million). The FY 1982 request is to reconfigure the last of the three interim Airborne Command Post aircraft to the E-4B Advanced Airborne Command Post configuration, \$111.6 million; and to provide miscellaneous reliability improvements in the amount of \$.8 million.

the FY 1983 program provides various communications improvements and other miscellaneous improvements.

In FY 82, continuation of safety modification for crash worthy fuel systems requires \$4.0 million and various other safety and reliability improvements require \$3.1 million. HH-53 (FY 82 - \$7.1 million; FY 83 - \$28.6 million).

in FY 83, the crash worthy fuel system and various other improvements begun in prior years require continuing support.

The FY 1983 program provides \$3.5 million for initiation of the SEEK TALK anti-jam communica-OV-10 (FY 83 - \$3.5 million).

(CM442À/ ALR46(V)) to provide the capability to identify and locate the latest known enemy threats; \$12.8 million to replace HF and VHF AM/FM radios with highly reliable state- of-the-art radios; \$3.0 million for initiation of a program to replace low and high altitude radar altimeter; and \$14.2 million for various modificain FY 1982, funds are required for follow-on costs of pre-Other Aircraft (FY 82 - \$42.9 million; FY 83 - \$63.9 million). In FY 1982, funds are required for follow-on costs of pr viously initiated modifications as follows: \$12.9 million for a modification to the Radar Warning Receiver Signal Processor tions on a variety of aircraft.

The FY 1983 program continues the modifications initiated in FY 1982 and prior.

These funds are required to provide for the modification Classified Projects (FY 82 - \$51.0 million; FY 83 - \$72.8 million). These funds are required to provide for the modification various aircraff and airborne systems used in classified missions, which because of their sensitivity, require the application special management and security safeguards. 5 5

Civil Reserve Air Fleet (CRAF) (FY 82 - \$87.8 million; FY 83 - \$108.9 million). The FY 1982 request of \$67.8 million is to incorporate cargo convertibility features into six production line wide-bodied passenger carrying aircraft being procured by United States commercial air carriers to enhance the strategic airlift capability without increasing the Air Force aircraft inven-

This will enhance the strategic airlift capabilities to satisfy The FY 1983 request is for seven additional CRAF aircraft. the time-phased deployment requirements of a major contingency.

The table below summarizes fund requirements for Fiscal Years 1981, 1982 and 1983 by aircraft/category:

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Aircraft/Category	FY 1981	FY 1982	FY 1983
B-52	\$485.0	\$511.6	\$505.9
FB-111	1	2.7	3.7
F-106	7.7	37.0	43.6
A-7	11.3	25.7	16.5
A-10	39.8	51.9	76.2
F/RF-4	72.4	101.5	108.0
F-5	1	3.8	2.7
F-15	83.4	45.3	81.7
F-16	40.0	0.09	69.1
F-111	70.8	33.8	6.69
EF-111	236.3	260.8	198.9
IR-1	•	1	7.3
C-5	181.7	214.6	207.2
C-141	43,3	52.9	35.0
1-38	5.5	8.3	4.5
1-39	8,3	1	•
C-130	23.9	94.9	91.2
C-135	176.4	143.3	132.2
F-3A	10.0	17.3	92.1
E-4A	140.0	112.4	12.6
H-3	1	1	8.2
HH-53	2.4	7.1	28.6
04-10	1.7	1	3.5
Other Aircraft	51.4	42.9	63.9
Classified Projects	100.6	51.0	72.8
CRAF	39.8	87.8	108.9
TOTAL	\$1,831.6	\$1,966.6	\$2,044.2

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# STATUS OF AIRCRAFT MODIFICATION PROGRAMS

FY 1979 Modification of Aircraft Programs as of 30 Oct 80 (\$ in millions)

Total Expenditures	\$490.9
Total Obligations	\$884.1
Total Program 1/ Value	\$945.3
Reprogrammings	\$-2.5
Appropriated	\$947.8
Program	Budget Activity No. 5 P-1 No. 19-41

1/ Includes \$-4.1 million of Congressionally approved reprogrammings out of this account and \$+1.6 million of below threshhold reprogrammings by the Air Force into this account. 1

# STATUS OF AIRCRAFT MODIFICATION PROGRAMS

FY 1980 Modification of Aircraft Programs as of 30 Oct 80 (\$ in million)

Program	Appropriated 1/	Reprogrammings 2/	Total Program Value	Total Obligations	Total Expenditures
budger ACTIVITY No. 5 P-1 No. 14-35	51,577.7	\$-21.8	\$1,555.9	\$1,132.2	\$126.5

1/ FY 80 Budget plus Supplemental
2/ Includes \$-31.9 million of Congressionally approved reprogrammings out of this account and \$+10.1 million of below threshhold reprogrammings by the Air Force Into this account.

\*

# STATUS OF AIRCRAFT MODIFICATION PROGRAMS

FY 1981 Modification of Aircraft Programs as of 30 Oct 80 (\$ in millions)

Total Expenditures	None
Total Obligations	\$1.4
Total Program Value	\$1,816.6
Reprogrammings	None
Appropriated 1/	\$1,816.6
Program	Budget Activity No. 5 P-1 No. 16-39

1/ FY 1981 President's Budget 3s amended

(in Thousands of Dollars)
Program Requirement - FY 83 ... \$2,880,100
Program Requirement - FY 82 ... 3,286,200
Program Requirement - FY 81 ... 2,151,345
Program Requirement - FY 80 ... 1,102,100

ACTIVITY: Aircraft Spares and Repair Parts

#### PART I PURPOSE AND SCOPE

This activity provides funds for centrally precured and managed, investment type spare components and repair parts for the aircraft in the inventory, the modification and modernization program, related aircraft support equipment, and spares for Other Production programs, such as ECM pods. Investment type items are defined as reparable assemblies, spares and repair parts which are centrally managed, and most items have a unit cost of \$1,000 or more.

## PART 11 JUSTIFICATION OF FUNDS REQUESTED

Provision is made for the procurement of investment initial spares, for which the funds must be programmed in FYs 1982 and 1983 to provide support for new production aircraft, common support equipment, the aircraft modification program, and Other Production programs. Replenishment, or follow-on, spares and repair parts funds must also be committed and obligated for those items required for the 1983 and 1984 flying hour programs (procurement lead time away - that is, funds are programmed one to two years ahead of the flying hour program, depending upon component production leadtime).

The following table compares fiscal years in the various spare and repair parts categories:

#### (in Millions of Dollars)

FY 1983	\$205.0 192.2 16.5 22.6 \$436.3 2443.8 \$2880.1
FY 1982	\$396.0 110.2 17.1 18.1 \$541.4 2744.8 \$3286.2
FY 1981	\$333.4 96.2 12.9 5.1 447.6 1713.7
FY 1980	\$294.3 45.0 11.7 \$351.0 751.1
	Initial Weapon System Spares Initial Modification Spares Initial Common AGE Spares Initial Other Production Spares Total Initial Spares Replenishment Spares Total Spares and Repair Parts

Included in this combined initial/replenishment spares program are spare engines and those recoverable/replacement type items are normally repaired and returned to stock. The basic determinant of the spares level required for an item is the time it will operate before it must be removed and repaired. This capability is Mean Time Between Demand (MTBD) and is expressed in operating hours. The MTBD of an item is applied to the operating program of the weapon system to determine how many reparables cements are determined. Maximum consideration is given to improved management actions, faster repair, air transportation, and selective management of high cost items. The buy requirements are intensively reviewed semiannually by an Air Force management will be generated during the period. From this, required pipeline quantities, base stock, depot stocks, and attrition replawhich are normally repaired and returned to stock.

craft being procured and aircraft modification programs. The FY 1982 program includes spares for the A-10, F-15, F-16, and TR-1 aircraft. The FY 1982 replenishment spares program supports peacetime operating stock requirements, includes War Reserve Materiel initial spares include spare engines and those new recoverable/replacement type items required for initial support of air-(WRM) spares for new aircraft being added to the inventory, and reduces WRM deficits caused by deferral of such procurement in prior years. A detailed discussion of War Reserve computation assumptions and methodology follows:

#### WAR RESERVE - SECONDARY ITEMS

#### \$ Millions)

FY 1982	\$4300.1 2487.3 729.7
FY 1981	\$4294.3 2140.0 522.7
FY 1980	\$3958.1 1974.9 87.1
Aircraft Replenishment Spares	Requirement Applicable Assets Applied Funding Requested

Planning Assumptions: The planning assumptions used for computing aircraft replenishment spares War Reserve Materiel (WRM) requirements are contained in the DOD Consolidated Guidance (CG). The CG provides guidance regarding the length of the wartime scenarios; the gross force size (number of aircraft wings); the number of days of WRM to be funded; and other general guidance relative to the logistics area for which WRM requirements are computed. Computation Methodology: WRM requirements are additive to peacetime needs, and are computed by a mechanized system for those items that are required for wartime usage, safety, and deemed mission essential. The WRM requirements consist of two segments as

1. Prepositioned segment consists of:

- War Readiness Spares Kits (WRSK) are air transportable packages of spares that will support specific units tasked to be I during the first 30 days of a war or contingency until resupply can be established. The basic configuration of a WRSK is determined by the maintenance concept to be used, i.e., Remove and Replace (RR) an Item as opposed to Remove, Repair, and Replace (RRR) the item. The WRSK are configured to include both the RR and RRR maintenance concepts. Since base level repair shops may not be available at the deployed site, support for the first few days is based on RR and the balance of the support is based on The using major command and the Air Force Logistics Command (AFLC) determine those essential items to be included in the to be included in the WRSK are computed using factors such as item fallure rates, number of items per aircraft, the flying hour WRSK, which is only a small portion of the total number of items used on a day-to-day basis in peacetime. The quantity of program to be supported, base repair time, item pipeline time, and available assets. deployed during
- those used in the WRSK computation. These requirements reflect the number of items required to support the base repair cycle, fill the pipeline to the depot for those items the base cannot repair, and provide a safety level to cover random demands. Those Base Level Self-Sufficiency Spares (BLSS) are spares designed to augment existing peacetime assets to support the initial increased wartime activity to specific units that will fight the war in place. BLSs requirements consider the same factors as units which are authorized a WRSK are not authorized a BLSS.
- are used and until the production base can be expanded to satisfy wartime consumption. OWRM requirements are determined based on Other War Reserve Materiel (OWRM) are spares required to sustain the force at wartime levels after the prepositioned assets requirements are then reduced by assets available from production, peacetime levels and WRSK and BLSS levels. OWRM assets are the same factors used for WRSK/BLSS computations, which are applied to the total wartim, flying hour program. stored in the AFLC depots.

rates; increased wartime tlying hour programs; modification of existing aircraft to increase wartime capability and increased cost siderable improvement over the \$522.7 million contained in the FY 1981 Budget, reflecting a definite commitment on the part of the requirements. Priority support of peacetime needs is essential to ensure the force is trained and the aircraft are maintained in wartime flying hour programs (sortie surge for tactical fighters) and inflation. The funding level for WRM spares is impacted by fiscal constraints. Due to limited resources, Air Force funding priority supports peacetime needs first and then WRM Changes in requirements and funding levels are caused by many factors such as new aircraft activations; changes in Item failure of items (inflation). The increase in the spares WRM requirements are driven primarily by new aircraft activations, increased an operational condition in order to meet wartime taskings. The FY 1982 war reserve funding level of \$729.7 million is a con-Air Force to improve wartime readiness. Aircraft initial spares requirements by weapon system and fiscal year are listed below:

\*AIRCRAFT INITIAL SPARES (DOLLARS IN MILLIONS)

32 FY 1983	<b>\$</b> 22.2 (4)	· ()	13.3 (18)	156.8 (96)	4.1	8.6 (4)	192.2	16.5	22.6	\$436.3
FY 1982	\$ 22.8	2,3	67.8 (30)	303.1 (96)	· (j	· (j	110.2	1.71	18.1	\$541.4
	TR-1 Nr. of Acff Procured	A-10 Nr. of Acff Procured	F-15 Nr. of Acft Procured	F-16 Nr. of Acft Procured	E-4A/B Nr. of Acft Procured	E-3A Nr. of Acft Procured	Modification Spares	Common AGE Spares	Other Production Spares	To†al

The aircraft initial spares requirements for each fiscal year are computed against the aircraft delivery schedules. Upon the determination of the requirement for each fiscal year's delivered aircraft, minimum essential financing is allocated to each fiscal year to provide adequate funding for item lead time protection.

(in Thousands of Dollars)
Program Requirement - FY 83 ... \$2,417,500
Program Requirement - FY 82 ... 1,931,200
Program Requirement - FY 81 ... 1,529,243
Program Requirement - FY 80 ... 1,249,434

ACTIVITY: Aircraft Support Equipment and Facilities

### PART I PURPOSE AND SCOPE

This activity provides for support equipment required to service and test aircraft and their components; for industrial machinery, equipment and facilities required in the manufacture of items funded by this appropriation; for those war consumable items required to be on hand for immediate use in the event of war; and for other charges such as electronic countermeasure equipment. The activity also provides for procurement of flight simulation equipment for aircraft that are no longer in production, and for programs not associated with one specific weapon system.

# PART II JUSTIFICATION OF FUNDS REQUESTED

(In Millions of Dollars) The estimate for this activity is comprised of the following items:

LINE ITEM	FY 1980	FY 1981	FY 1982	FY 1983
Common Ground Equipment Industrial Facilities War Consumables Wher Production Charges NATO AMACS	\$278.8 56.8 1.8 668.9 243.1	\$257.2 61.9 7.1 821.0 382.0	\$333.5 96.4 86.6 1056.5 358.2	\$426.2 102.6 86.7 1604.8 197.2
ACTIVITY TOTALS	\$1249.4	\$1529.2	\$1931.2	\$2417.5

### Common Ground Equipment

This program is for the procurement of organizational, base and depot level support equipment, both common and peculiar, for out-of-production aircraft and for common support equipment for new aircraft entering the inventory. The equipment is used on the flight line, in maintenance shops, and in the depots. The program also provides for the procurement of flight simulators and other training devices for aircraft that are out of production. Support equipment includes depot plant equipment, support equipment training devices for aircraft that are out of production. Support equipment includes depot plant equipment, support equipment for modifications, common training equipment and the following federal supply groups (FSG):

FSG 17 - Aircraft launching, landing, and ground handling equipment (trailers, platforms, slings).

FSG 49 - Maintenance and repair shop equipment (test stands, jlgs, fixtures, noise suppressors).

FSG 61 - Electric wire and power distribution equipment (generators and generator sets, converters).

 Instrument and laboratory equipment (navigational and flight instruments, electrical and electronic measuring and testing equipment). FSG 66

Other Federal Supply Groups - Pumps, compressors, air-conditioners, heaters, gauges, and specialized tools.

The following table shows a comparison, by year, by category, of support equipment:

### (In Millions of Dollars)

NOMENCL ATURE	FY 1980	FY 1981	FY 1982	FY 1983
FSC 17 FSC 49 FSC 61 FSC 66 Other FSCs Depot Plant Equipment Common Training Equipment	\$ 31.3 67.0 17.5 19.7 29.2 19.5	\$ 26.1 20.6 22.4 24.0 33.2 19.5	\$ 52.8 65.2 29.8 32.3 19.1	\$ 20.5 89.6 45.0 46.2 96.1 23.3
(Simulators)* TOTAL COMMON GROUND EQUIPMENT	\$ 278.8	\$ 257.2	\$ 333.5	\$ 426.2
		+444444		

\*FY 82 Common Training Equipment includes simulators for B-52 aircraft.  $^{\star}$ 77

### Industrial Facilities

facilities; finances preparation for shipment of government production equipment to the Defense Industrial Plant Equipment Center Industrial Preparedness Planning Program. Funds are also requested for the Manufacturing Technology program which assures the timely establishment and improvement of manufacturing processes, techniques, or equipment required to support current and projecor to other priority Air Force users; provides funds for actions necessary to bring Air Force plants into compliance with noise, The industrial Facilities program provides for capital type rehabilitation of real property at Air Force owned industrial air and water antipollution standards and to permit the reduction of energy consumption; and provides funds for the Air Force ted Air Force programs.

The following table shows a comparison, by year, of the Industrial Facilities Program:

(In Millions of Dollars)

982 FY 1983	3 5 2 5 9 2 2 65.5 9 65.5 4 102.6
	6.3 20.2 60.2 2.9 2.9 4.6
FY 1981	4.9 10.4 37.6 - - 8.3 8.3
FY 1980	1.3 9.3 9.3 41.3 .9 .7 .7
	Expansions Packing, Crafting & Handling Capital Type Rehabilitation Modernization Manufacturing Technology Industrial Preparedness Planning Environmental Protection Energy Conservation TOTAL Industrial Facilities

The requirements for FY 1982 in each category in the above table are as follows:

Required for real property modifications at Air Force Plant 4 (Fort Worth, Texas); Air Force Plant 6 (Marletta, Geor-42 (Palmdale, California); and others. Expansions:

Packing, Crating, and Handling: Required to prepare idle government-owned equipment for shipment to other locations.

Capital Type Rehabilitation: Required for rehabilitation of government-owned, contractor-operated industrial production facilities. Included are Capital Type Rehabilitation projects for property operated by General Dynamics, Fort Worth, Texas; Lockheed-Georgia, Marietta, Georgia; Rockwell International, Palmdale, California; General Electric, Binghamton, New York, and others.

Required for updating of overhead crane system at Air Force Plant 4 (General Dynamics, Fort Worth, Texas).

Manufacturing Technology: Required for the establishment, transition and implementation onto the factory floor of new or significurrent state of the art. Directly improves the productivity of the U.S. industrial base required to produce Air Force systems by demonstration of results achieved. The FY 1982 program includes emphasis on areas such as metallic structural materials (\$.6 mllconducted under contract with private industry through competitive procurement, with results disseminated throughout the industry. lion); electromagnetic windows and electronic materials and devices (\$.6 million); integrated Computer Aided Manufacturing (\$19.0 validating new manufacturing methods and demonstrating them in the production environment. Establishes a systematic approach to All capitel facility investments are borne by industry, and projects are negotiated with an Air Force business strategy aimed at securing all data rights, commitments to establish competitive production sources, and a requirement for an open end-of-contract production and manufacturing throughout the aerospace industry, and assures a high return-on-investment (ROI) by timely application of results across the industry, as well as reducing the cost of specific Air Force systems acquisitions. All projects are cantly improved manufacturing methods which are based upon the results of the RDT&E and IR&D programs and which are beyond the lion); composite structures and materials (\$2.8 million); fluids (\$.2 million); propulsion materials and components (\$5.8 milmillion); Technology Modernization for the industrial base (\$10.4 million); and Technology Modernization for the Air Logistics

Environmental Protection: Required for atmospheric and water antipollution projects at Air Force Plant 63 (Wyman-Gordon, North Grafton, Massachusetts); Air Force Plant 47 (Alcoa Aluminum, Cleveland, Obio); and others. Energy Conservation: Required for high return on investment projects at facilities such as Air Force Plant 4 (General Dynamics, Fort Worth, Texas); Air Force Plant 6 (Lockheed - Georgia, Marietta, Georgia); Air Force Plant 47 (ALCOA Cleveland, Ohio); and Air Force Plant 59 (General Electric, Binghamton, New York).

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December of the properties of the stain of the properties of the pricate and install two stainless steel and four mild steel tanks with necessary plumbing, curbs, drains and wood platforms to permit cleaning and chem filming of fabricated parts. Tank sizes to be approximately 56" x 36" x 48" deep. Install a ventilation system complete with blowers, motors, ducts and controls as required.

- 2. Provide underground power (440 VAC 60) to four locations and provide three power junction boxes at these locations.
- 5. Expand the Scientific Calibration Laboratory to accommodate (1) Satellite Calibration Laboratory, (2) calibration equipment for the Technology Modernization Program, and additional calibration equipment to support the F/FB-111 Program.
- 4. Provide and install equipment and duct work for separate temperature-humidity control of Engineering chemistry Laboratory Area 1 and Area 2.
- 5. Replace two badly deteriorated, underground gasoline storage tanks and their associated plumbing.
- 6. Mechanical Gate Control Arms are required for vehicle gates No. 2, 2A, 6, 8 and 10.

essing equipment in Building' least bay. Bldg 117, chemical storage, a large trash compactor 75 feet away and proc-Feeders 8 and 9 for east 750 KVA transformer. This transformer serves Extend Feeder 8 to feeder Center 3 and install selector switch to utilize 10 DESCRIPTION OF PROPOSED CONSTRUCTION 37 Feeder No 3 and Install Selector Switch 8.82 Extend Electrical Feeder No 8 to Center (2000) CO21 TSOD TINU YTITNAUD 9 COST ESTIMATES 8.82 221-221 711087 5 PROCRAM ELEMENT 8 PROJECT COST (\$000) 7 PROJECT NUMBER 6 CATEGORY CODE Expansion AF Plant 3 McDonnell-Douglas, Tulsa OK 3 INSTALLATION AND LOCATION A. PROJECT TITLE 08 das 11 EA 1885 EVCITILIES BEOTECT DATA Air Force 3 DATE COMPONENT

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able in storage at Site 3).

emergency, the ability to open these doors quickly is extremely important. with a fork lift or tug creates maintenance problems. In case of doors makes it difficult and hazardous to open manually. Opening them 211 (paint hangar building) are manually operated. The size of these 2. The large "X" hangar doors at the north and south ends of Building

3. Install sump pumps in the eight underground utility cubicles. Currentl

and short-out power lines. there are no pumps; everytime it rains the cubicles fill-up with water

on hand and this material should be stored inside, out of the elements. barrels. The capacity is not large enough to house half the material rently being used to store flammable and toxic liquids in 55 gallon 4. Building 213 is a small (510 Sq Ft) metal prefabricated atructure cur-

recovered and is costly to replace. for re-use in the sandblasting operation. Currently the sand is not equipment prior to repainting. The pit will be used to recover the sand the north side of Bldg 210 to recover the sand used in sand blasting metal 5. This project consists of installing a concrete sand recovery pit on

DD 1,000 1391c \* ALVINUS EDITIONS \*\*\* AE USED INTERNALLY 39 paint booth for maintenance equipment. The building is required to store maintenance materials and provide a will be built to replace various make-shift buildings currently in use. 6. A prefabricated metal type building (80' x 100") with 18 ft headroom EXPANSION A PROJECT TITLE PHOJECT NUMBER nustallation and location
AP Plant #42 Lockheed California
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AFP #19 property from State property. been given by the State of California for General Dynamics to access vicinity of the tanks to allow access to the pump station. Permission has gate will be installed on the north fence boundary of the plant in the the fuel tanks located on the north side of the Bldg. Additionally, a in the vicinity of Bldg 5 and will allow for the pumping of fuel oil to This project provides for the installation of a fuel pump station 10 DESCRIPTION OF PROPOSED CONSTRUCTION 0.02\$ Provide Refueling Access to fuel oil UNIT COST YTITMAUO 9 COST ESTIMATES 0.02\$ 711087 221-221 8 PROJECT COST (5000) 7 PROJECT NUMBER 6 CATECORY CODE S PROGRAM ELEMENT Expansion AF Plant #19 San Diego CA S 11.51 ALLATION AND LOCATION CO. GENERAL Dynamics 4 PROJECT TITLE 12 Sep 80 FY 1982 PROCURELLAT PROJECT DATA Air Force S DAIL

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During FY-83, an estimated \$10 Million to \$13 Million will be required for the many water pollution abatement deficiencies which currently exist at Air Force Plant 63.

The design of an industrial waste treatment facility at this plant will eliminate all sources of pollution which are currently polluting the creeks which feed into the Quinsigamond River and also are contaminating the underground water table.

PROJECT DESCRIPTION

I. This project consists of the actual design of a waste water treatment facility to handle both oil contaminated and chemically contaminated waste water. The design will be the result of a conceptual design analysis (Phase I) performed by an architect/engineering firm, actively engaged in water pollution abatement construction and who is approved by the State of Massachusetts. Such things as oil in water splitting, primary free-floating oil/water separation, secondary oil/water separation, auxiliary press ing oil/water separation, secondary oil/water reatment, heat water treatment, chemically contaminated waste water treatment, heat quench water reuse, boiler and cooling tower blowdown treatment, and

nitrate, hexavalent chrome, cadmium removal will be covered in the design.

2. Installation of a heated and insulated weather protection enclosure around the electrostatic precipitators and prefilter equipment used to control air pollution on the air exhaust from the 35 and 50% ton forging presses. Condensed water forms on the interior walls of the precipitators jie waiter exhaust from the interior walls of the precipitators.

lead time equipment requirements. This project will allow the placement of purchase orders for the long lead time water pollution abatement equippollution abatement equipment. From the conceptual design analysis (Phase I) performed in FY 81, the A/E has knowledge of the basic long pollution abatement project is the purchase of long lead time water 3. Of utmost importance to the successful completion of any waste water ENVIRONMENTAL PROTECTION 4 PROJECT TITLE S PROJECT NUMBER Morth Grafton MA AF Plant # 65 - Wymann Gordon CO 3 INSTALLATION AND LOCATION Air Force EVCILITES PROJECT DATA FY 1982 17 Sep 80

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analysis to meet EPA Regulatory guidelines. The specific design and composition will be based on the A&E design plans. The latter would include construction of necessary facilities. wastes generated, applying for permits and implementation of control March, 1980 have established time tables for notifying EPA of hazardous dling and storage of hazardous wastes. Regulations promulgated in requires special facilities constructed to their guidelines for the han-Waste Regulatory Program. Part 3004 of the EPA proposed regulations Environmental Protection Agency (EPA) to institute a National Hazardous The Resource Conservation and Recovery Act of 1976 requires the U.S.

### War Consumables

The funds requested, along with prior funded assets, will provide additional wartime support needed, in the event of hostili-ties, to sustain operations until such time as production could be expanded to provide the required level of support. Included in this program are auxiliary fuel tanks, pylons, ejector racks and adaptors which are consumed during wartime operations. The FY to request starts the acquisition program for F-16 370 gallon tanks and pylons.

The following is a breakout, by fiscal year, of the War Consumables program:

(in Millions of Dollars)

7 J	'- । च	Sef. 1
FY 1987	₽. 3. \$. \$.	86. ₹.
FY 1981	57.1	\$7.1
FY 1980	Φ. Ι	\$1.8
	F-16 Aircraft	TOTAL War Consumables

### uther Priduction harges

It is program privides for items, sour as creatified Projects, Alternate Mission Equipment, and Air Combat Maneuvering Instrumentation, that are not directly related to other producement lines in this appropriation and cannot be reasonably allocated and charaged thereto. It also includes items, our as Electronic Countermeasure (ECM) Pous, Pave Tack Pods, LANTIRN, GBU-15, and Pave Penry Pods, that are used by more than one weapon system and managed as end items themselves.

The following table provides a imparison, by fiscal year, of the items in this program:

tin Millions of Dallars)

	FY 1980	FY 1481	FY 1987	FY 1983
Crass they projects 17.	\$ 413.9 112.6	\$ 566.8 170.1	\$ 725.5	\$ 1132.7 258.9
Payer Jack Pods Payer Denny Done	9.4.0 0 %-	1 (	. 1	<b>. 1</b> 1
Airborne Video Tape Recorder/		12.4	10.4	l ፍ
Jordon 19 Jenson Alternate Wission Equipment	r d	27.C	24.2	16.3
Air Combat Manguvering Instrumentation	O. a.	٠. ټ	7.0	4.5
G8U-15	•	10.2	0.9	16.2
LANTIKN AF Academia (Willetander	1 4	ci 1	15.9 4	18.3
30M Gun Pods	5.0	13.0	43.0	54.4
TOTAL WINER PRODUCTION CHARGES	668.9	821.0	1656.5	1604.8

Includes \$32.5 million in FY 80, \$79.1 million in FY 81, \$34.3 million in FY 82, \$82.9 million in FY 83 for NFIP.

Justification for the various line items is as follows:

### Classified Projects:

includes the Air Force Tactical Improvement Program and several National defense projects which are classified Special Access.

#### ECM Pods:

Includes the procurement of new pods, such as the ALQ-131, and update of inventory pods, such as the ALQ-119, to maintain capabilaty to counter the latest Soviet threats. The pods are used on several tactical strike/reconnaissance aircraft.

### Pave Tack Pods:

These pods provide a 24 hour target acquisition/laser designation system for F-4E, RF-4C, and F-111F aircraft.

### Pave Penny Pods:

These pods are low-cost laser seekers which detect reflected laser energy from targets designated by other systems such as Pave Tack. The small, 32 pound, pod provides a day and night laser seeker capability to A-10, and A-7 airc. .

# Airborne Video Tape Recorder (AVTR)/Cockpit TV Sensor (CTVS):

up display (HUD). Aircrews, maintenance crews, and combat and training units use the video tape recordings to analyze mission and training results and for trouble shooting and maintenance. The AVTR will be common to the entire tactical force. The CTVS will replace the existing gun camera which employs film; the advantage is that no film processing is required, making the data available for use immediately after landing. The CTVS will provide imagery data to the AVTR for recording, including a split-screen The AVTR records all audio available at the aircrew headset and all video displays on the radar/Electro-Optical display and headpresentation for multiple video sources.

### Alternate Mission Equipment:

The program procures electronic warfare and airborne photography/reconnaissance equipment to provide countermeasure capabilities against changing enemy electronic defenses or for other unpredicted and urgent operational requirements.

# Air Combat Maneuvering Instrumentation (ACMI):

This is a joint Air Force/Navy program to procure pods which provide accurate kill/no kill data for assessment of tactics and air-crew training at the Air Combat Maneuvering Range. The pod is mounted on a standard launch rall and transmits attitude, airspeed, altitude, angle of attack, and weapons information to ground sites. crew training at the Air Combat Maneuvering Range.

GBU -15 PUDS: This program provides a radio frequency link between an aircraft and a GBU-15 Modular Guided Weapon System from Weapon launch to impact to enable man-in-the-loop guidance for improved weapon CEP and enhanced aircraft survivability. The pods are used on F-4E, F-111F and B-52D aircraft in an interdiction, defense suppression, and sea lane protection role.

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# Low Altitude Navigation and Targeting Infrared System for Night (LANTIRN):

Includes procurement of new pods to provide a night, under weather capability on the A-10 and F-16 aircraft to automatically attack ground targets on low level mission in a single pass.

### Air Force Academy Sailplanes:

10 powered sailplanes will be procured for the Air Force Academy to overcome runway and airspace constrains of an soaring program, thereby enhancing flying safety. The program also increases career motivation of cadets by enabling every cadet to solo in

### 3CMM Gun Pods:

These pods will provide a near term, reliable, relatively low cost, easy-to-employ, anti-armor tank-killing weapon for A-7, F-4 and F-16 fighter aircraft.

# U.S. Contribution to NATO Airborne Warning & Control System (AWACS) Aircraft Program:

total U.S. share through FY 1986, to be paid in annual increments, is \$1,598 million. NATO's acquisition of its own force of 18 AWACS aircraft, to be compremented by 11 United Kingdom Nimrod Airborne Early Marning aircraft, for operations in Europe will make and deterrence of potential warsaw Pact threats, and improve the military responsiveness of the Alliance through its early warning, surveillance and information distribution capabilities. In wartime, the AWACS will increase the effectiveness of Allied weapon systems while helping to standardize system capabilities. The NATO AWACS will be interoperable with the USAF AWACS, the UK environment, will provide improved air defense and counter-air operations for NATO forces. It will provide deep look surveillance Nimrod AEW, and with both U.S. tactical and European national command and control systems. The unprecedented Alliance-wide coma major improvement in the military effectiveness of the Alliance, particularly against the growing low level air attack threat This program provides the U.S. share of costs, including acquisition, operation, and support, of the NATO AWACS program. posed by the Warsaw Pact. The AWACS force, with attendant equipage, basing, and modification to the European ground radar morty funded program is the most practical way for t e Alliance to attain an effective Airborne Early Warning capability.

### (In Millions of Dollars)

FY 1983	\$197.2
FY 1982	\$358.2
FY 1981	\$382.0
FY 1980	\$243.1
	AWACS*

\*Does not include impact to NATC AWACS Aircraft Program that results from deletion of the FY 1982 U.S. procurement of two E3A aircraft. COMPARISON OF FY 1981 PROGRAM REQUIREMENTS AS REFLECTED IN FY 1981 BUDGET WITH FY 1981 PROGRAM REQUIREMENTS AS SHOWN IN FY 1982 BUDGET

# SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

	Total Frogram Requirements Per 1981 Budget	Total Program Requirements Per 1982 Budget	Increase + or Decrease ~
Combat Aircraft	\$3,629,400	\$3,981,100	\$+351,700
Airlift Aircraft		70,800	+70,800
Other Aircraft	105,100	100,100	-5,000
Modification of In-Service Aircraft	1,816,600	1,831,555	+14,955
Aircraft Spares and Repair Parts	1,566,900	2,161,345	+594,445
Aircraft Support Equipment & Facilities	1,536,143	1,529,243	006,9-
Reimbursable Program	266,538	266,538	•
Total Fiscal Year Program	\$8,920,681	\$9,940,681	\$+1,025,000

## EXPLANATION BY BUDGET ACTIVITY

- 1. Combat Aircraft \$351.7 million). The net increase results from Congressional additions to the FY 1981 Budget (\$375.3):
  A-10, \$24.0; F-15, 9.0; F-16, \$59.7; A-7K, \$112.6; and, a proposed reprogramming of \$23.6 from the F-16 in this Budget Activity to the Aircraft Spares and Repair Parts Budget Activity.
- 2. Airliff Aircraft (+\$70.8 million). Congress added 6 C-130H aircraft to the FY 1981 Budget.
- Other Aircraft (-15.0 million). The decrease is caused by a proposed reprogramming from this Budget Activity to the Aircraft Spares and Repair Parts Budget Activity.
- 5 Modification of In-Service Aircraft (+\$15.0 million). The net increase was caused by Congressional additions of \$60.0 (KC-135 reeng; +\$60.0; F/RF-4, +\$25.0; CRAF, -\$25.0) and a proposed reprogramming of \$45.0 (F-4, -\$10.0; C-5, -\$5.0; C-141, -\$5.0; CRAF, -\$15.0; Other, -\$5.0) from this Budget Activity to the Aircraft Spares and Repair Parts Budget Activity.

6. Aircraft Spares and Repair Parts - (+\$594.4 million). The increase is the result of Congressional additions of \$475.4: A-7K Initial Spares, +\$6.1; F-15 Engine Spares, \$38.1; F-16 Engine Spares, \$32.4; C-130H Initial Spares, \$1.7; Replenishment Spares, \$397.1; and a proposed reprogramming of \$119.0 to this Budget Activity from other Budget Activities in this appropriation to cover increased Peacetime Flying Hour spares requirements.

7. Aircraft Support Equipment and Facilities - (-\$6.9 million). The net decrease is a result of a Congressional addition of \$38.5 for ECM pods and a proposed reprogramming of \$45.4 (Common Group Equip., -\$15.0; Industrial Facilities, -\$15.0; Other Production Charges -\$15.4) from this Budget Activity to the Aircraft Spares and Repair Parts Budget Activity.

8. Reimbursable Program - No change.

COMPARISON OF FY 1981 FINANCING AS REFLECTED IN FY 1981 BUDGET WITH FY 1981 FINANCING AS SHOWN IN FY 1982 BUDGET

	(In The	(In Thousands of Dollars)	ars)
	Financing Per FY 1981	Financing Per FY 1982	Increase (+)
***************************************	Amended budger	budger	Decrease (-)
Program requirements	8,920,681	9,940,681	+1,020,000
Program requirements (Service account)	(8,654,143)	(9,674,143)	(+1,020,000)
Program requirements (Reimbursable)	(226,538)	(226,538)	(-)
Less:			
Anticipated reimbursements	266,538	266,538	ı
Appropriation	8,654,143	9,674,143	+1,020,000
EXPLANATION OF CHANGES IN FINANCING	INCING		

The Fiscal Year 1981 program was increased \$1,020,000 thousand by Congress.

COMPARISON OF FY 1980 PROGRAM REQUIREMENTS AS REFLECTED IN FY 1981 BUDGET WITH FY 1980 PROGRAM REQUIREMENTS AS

SHOWN IN FY 1982 BUDGET

# SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

	Total Program Requirements Per 1981 Budget	Total Program Requirements Per 1982 Budget	increase + or Decrease -
Combat Aircraft	\$4,007,050	\$3,994,950	\$-12,100
Airlift Aircraft	1,620	72,200	+70,580
Other Aircraft	43,200	43,000	-200
Modification of In-Service Aircraft	1,437,100	1,555,880	+118,780
Aircraft Spares and Repair Parts	1,105,570	1,102,100	-3,470
Aircraft Support Equipment and Facilities	1,295,724	1,249,434	-46,290
Reimbursable Program	361,335	269,416	-91,919
Total Fiscal Year Program	\$8,251,599	\$8,286,980	+\$35,381

## EXPLANATION BY BUDGET ACTIVITY

1. Combat Aircraft - (-\$12.1 million). The FY 1980 Supplemental Budget requested an increase of \$20.8 million for inflation; Congress approved \$9.9 million, a decrease of \$10.9 million. \$1.2 million of A-10 funds was reprogrammed to the Modification of In-Service Aircraft Budget Activity for a classified project. 2. Airlift Aircraft - (+\$70.6 million). The Air Force offerred \$75.6 million of C-130H funds to finance the FY 1980 Supplemental/FY 1981 Amended Budget; Congress denied this action, giving the funds back. \$5.0 million was transferred from this Budget Activity to the Modification of In-Service Aircraft Budget Activity to finance a classified project.

Other Aircraft - (-5.2 million). Congress denied the request of 5.2 million in the FY 1980 Supplemental Budget for inflation

funds was reprogrammed to the National Guard Personnel, Air Force appropriation; \$6.5 million of A-10 funds was reprogrammed to Supplemental/FY 1981 Budget; Congress accepted \$14.5 million and restored \$130.6 million. The Air Force requested \$8.3 million for inflation in the FY 1980 Supplemental; Congress approved \$3.7 million, a reduction of \$4.6 million. \$2.1 million of F-106 the Military Personnel, Air Force appropriation; \$8.8 million of A-10 funds was reprogrammed to the Operations and Maintenance, Air Force appropriation. \$10.2 million was reprogrammed to this Budget Activity from Combat Aircraft (\$1.2), Airlift Aircraft Modification of In-Service Aircraft - (+1118.8 million). The Air Force offerred \$145.1 million to finance the FY 1980 (\$5.0) and Aircraft Support Equipment and Facilities (\$4.0) for a classifled project. Aircraft Spares and Repair Parts - (-\$3.5 million). The Air Force requested \$5.9 million in FY 1980 Supplemental for 6. Aircraft Spares and Kepair raris - 1-200 minimitation of \$3.5 million.

7. Aircraft Support Equipment and Facilities - (-\$46.3 million). The Air Force requested \$7.0 million for inflation in the FY 1980 Supplemental; Congress approved \$1.0 million, a reduction of \$6.0 million, \$33.1 million of War Consumables and \$2.6 million of Other Production Charges funds were reprogrammed to the Milliary Personnel, Air Force appropriation. \$.6 million of Other Production Charges funds was reprogrammed to the Missile Procurement, Air Force appropriation, \$4.0 million was reprogrammed from this Budget Activity to the Modification of In-Service Aircraft Budget Activity for a classified project.

8. Reimbursable Program - (-\$91.9 million). The decrease was due to receipt of fewer customer orders than was anticipated.

COMPARISON OF FY 1980 FINANCING AS REFLECTED IN FY 1981 BUDGET WITH FY 1980 FINANCING AS SHOWN IN FY 1982 BUDGET

	(In Th	(In Thousands of Dollars)	rs)
	Financing Per FY 1981	Financing Per FY 1982	Increase (+) or Decrease (-)
Program requirements	8,251,599	8,286,980	+35,381
Program requirements (Service account)	(7,890,264) (361,335)	(8,017,564) (269,416)	(+127,300) (-91,919)
Less:	200>	217 366	010 10
Anticipated reimbursements	467,335 - 13,800	3/3,416 17,000 13,800	-91,919 +17,000 -
Add:	,		<i> </i>
	194,776	75,076	-119,700
Unobingated balance to Inhance subsequent year budget plans		6,400	+9,400
Appropriation	7,965,240	7,965,240	ı
a/ Includes proposed transfers of \$191,917 to finance the FY 80 Supplemental Amendment.	ntal Amendment,		

# EXPLANATION OF CHANGES IN FINANCING

Adjustments The Fiscal Year 1980 program has increased \$35,381 thousand since the submission of the FY 1981 budget. by category of financing are explained below:

- The decrease of \$91,919 thousand is due to fewer actual customer orders in FY 1980. Anticipated Reimbursements.
- \$17,000 thousand was transferred from Shipbuilding and 2. Unobligated Balances Transferred from Other Accounts. \$17,000 thousand was trans-Conversion, Navy, FY 1980, in accordance with the FY 1980 DoD Supplemental Appropriations.
- 3. Transfer to Other Accounts. \$600 thousand was transferred to Missile Procurement, Air Force, FY 1980; \$18,517 thousand was transferred to Other Procurement, Air Force, FY 1980; \$42,171 thousand was transferred to Military Personnel, Air Force, FY 1980; \$2,100 thousand was transferred to ANG Personnel, Air Force, FY 1980; and \$8,829 was transferred to 0.6M, Air Force, FY 1980. All transfers were in accordance with Section 734 of the DoD Appropriation Act of 1980.
  - programs 4. Unobligated Balance to Finance Subsequent Year Budget Plans. Financing adjustment to finance FY 1981 per Congressional direction, is specified in P.L. 96-527.

ANALYSIS OF UNOBLIGATED BALANCES - 30 SEPTEMBER 1982

SUMMARY BY CATEGORY (In Millions of Dollars)

#### EXPLANATION

Procurement funds are available for obligation for three years because of the extensive lead time required to develop detailed specification, issue Requests for Proposals (RFPs) and to negotiate and finalize contracts for procurement of investment equipment. Unobligated balances are required for programmed and needed items on which contracts have not reached the obligational stage by the end of the fiscal year because of the procurement process.

fiscal The following are illustrative of the reasons which will cause unobligated balances at the end of each

- . Military Interdepartmental Purchase Requests (MIPRs) (\$57.7 million) These documents are used to reone of the other military services to procure Air Force requirements in conjunction with their own or with is received from the other military service. Frequently, contractual arrangements will have been completed and the award those of another service. Funds to support these requests remain unobligated until notification of contract obligation incurred but notification from the other service is not received in time for recording records prior to or at the end of a fiscal year.
- 2. Completing Contractual Arrangements:
- Specification Definitions (\$356.6 Million) Unobligated funds result when specifications for newly items cannot be definitized in time to permit contract negotiation prior to or at the end of the fiscal introduced
- Price Redeterminations (\$411.0 million) Prices are redetermined at intervals throughout the life of large contracts, the rewards and penalties of multiple incentives (cost, performance and schedule) cannot be determined and obligated prior to the end of the fiscal year. Funds are reserved for these purposes when upward adjustments seem likely; however, obligation does not occur until a formal redetermination has been agreed upon and Final obligation for contracts must await negotiations on agreed target-ceiling formulae. contract amended. Unobligated funds at year end result. a contract,
- ders may occasionally be initiated under letter contracts. The letter contract generates a partial obligation of the total program value with the balance remaining committed but unobligated pending definitization and negotiation of the detailed contract terms. These actions can carry over the end of a fiscal year and result in unobligated Definitization of Contracts (\$849.1 million) - Procurements of complex systems and large material orfunds.

- adequate appropriations and funds must be available in a given fiscal year for obligation, committed or set aside in a reserve account in an aggregate amount sufficient to complete the procurement of a specified number of end provides that items and advance procurement for approved programs. Unobligated balances at the end of a fiscal year are a conse-1969) This policy, enunciated in DoD Directive 7200.4 (October 30, quence of this policy and accrue in the following categories: Full Funding Policy -
- laying the obligation of funds by the end of the fiscal year. Also, approved and funded programs are sometimes Delayed/Revised Program Release (\$1,280.6 million) - Adjustments in quantities or specifications of other equipment to meet changing situations or to exploit engineering improvements generally require prior approval of reprogramming requests which can delay program release and direction until well into the fiscal year, thus dedelayed/undirected beyond 30 September pending decision on an aspect of the program that has arisen requiring resolution before proceeding.
- plexities, provision is made in procurement programs, as a percentage of the estimated cost of the item, to cover engineering improvements and design changes which will occur as a result of manufacturing experience of Air Force Engineering changes are not definitive requirements known in advance and they cannot be obligated until the change is authorized and directed. These changes occur throughout the life of the production contract Engineering Changes (\$441.5 million) - Based on prior experience with systems of like nature and comand result in unobligated balances. requirements. ъ.

FY82 PRESIDENTS BUDGET

FLIGHT SIMULATOR PROCUREMENT PROGRAM (DOLLARS IN MILLIONS)

APPROPRIATION: Aircraft Procurement, Air Force

Weapon	٤	P-1 Line Item	FY 80	80 tor	PT 81	81	A.	FY 82	FY 83	83	FY 84	48
	#		Oty	Amt	ÇÎ.	Amt	Ę,	Aut	Ot'y	VB ¢	Çì	Ant
F-16	OFT ADD.CAP 1/	<b>√</b>	12	29.3	- h	32.4	-  -	33.3	-  -	31.4	-  -	6.0 52.3 58.3
KC-135	WST UPDATE LCT SPARES	45/46	1 1	2.0	4	2: 4: 7:			•	•	• •	28.4
B-52	OAS PTT WST/OSMT SPARES TOTAL	45/46	4 4 4	1.9 166.4 11.8 180.1	2/1	109.0	~ <del> </del> ~	100.1 7.8 107.9	, w  w	63.2 6.7 69.9		83.8 10.7
EP-111	USAFE EWT SPARES TOTAL	45/46							-  -	8 8		
KC-10	MS CPT/BOPTT TOTAL	ec		4.1	1,1,1	12.5 2.1 14.6						
ğ	TOTAL			271.9		169.0		146.5		115.8		183.8

Includes simulation capabilities for Electronic Warfare, Adaptive Training, Digital Radar Landmass, Limited Takeoff and Landing. 7

The WST Update is not related to the Low Cost Trainer Program, scheduled for procurement in PY 84. 71

PY 82 PRESIDENTS BUDGET

FLIGHT SIMULATOR PROCUREMENT PROGRAM (DOLLARS IN MILLIONS)

APPROPRIATION: Aircraft Procurement, Air Force

Weapon	Type	P-1 Line Item	PY 85		2	يو	COST TO	TO ETE	TOTAL	-1
	#		ğ	Ħ	Qty An	Amt	Qt'	Amt	Qty	Amt
F-16	OFT ADD. CAP 1/ TOTAL	•	7 5	12.8 58.6 71.4	2 2	13.5 38.8 52.3			20	$\frac{104.1}{276.1}$ $\frac{276.1}{380.2}$
KC-135	WST UPDATE LCT SPARES TOTAL	45/46	10	70.5 3.8 74.3	10	72.2 4.2 76.4	#  #	80.0 5.0 85.0	35	4.4 251.1 15.6 271.1
B-52	OAS PTT WST/OSMT SPARES TOTAL	99/54.							4 18/1 4/18/1	1.9 522.5 42.7 567.1
EF-111	USAFE EWT SPARES TOTAL	45/46							1 1	8.8
KC-10	MS CPT/BOPTT TOTAL	<b>®</b>							$1\atop 1/1\atop 1/1/1$	16.6 2.6 19.2
TOTAL				145.7		128.7		85.0		1246.4
BOPTT CPT EWPTT EWPTT EWT HS MS OASPTT OPT WST	Boom Operator Part Ta Cockpit Procedures Tr Electronic Warfare Pa Electronic Warfare Tr Low Cost Trainer Mission Simulator Offensive Avionics Sy Operational Filght Tr Offensive System Miss	Boom Operator Part Task Trainer Cockpit Procedures Trainer Electronic Warfare Part Task Trainer Electronic Warfare Trainer Low Cost Trainer Mission Simulator Offensive Avionics System Part Task Trainer Operational Flight Trainer Offensive System Mission Trainer	rainer 188k Trair 1 1 Part Tae 1	her sk Traine	. <b>.</b> 62			Exhi	b1c P-43	Exhibit P-43 (p. 2 of 2)

## MODIFICATION OF AIRCRAFT FY-82 PRUGRAM

FY-82 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FURCE

MODIFICATION TITLE AND NO: TAIL MARNING SYSTEM, MN-2923

8-52 G/H MCDELS OF AIRCRAFT AFFECTED: DESCRIPTION/JUSTIFICATION:

OF AIR TO AIR MISSILE THREATS ACAINST THE B-52. PROVIDES AUTOMATIC MANAGEMENT OF EXPENDABLE COUNTERMEASURES (INFRARED FLARES) USED TO DECOY IR-SEEKING MISSILES.

CAPABILITY TO DETECT AIR TO AIR MISSILES, THUS INFORMATION NEEDED TO DISPENSE FLARES WITH HIGH

T O T A L QTY CCST 268 100.4		5.9 69.6 8.2 8.2 16.1	100.4
1 0 1 01 Y 268		266	268
OUTYEAR QTY CUST		 	
83 CUST		64 16.3 61 16.1 39 11.9	104 56.1 64 16.3 61 16.1 39 11.9
FY- 0TY  39		39	39
FY-82 QTY COST 	•	16.1	1.91
ØTY (	1	91	9
FY-81 FY-82 UTY COST QTY COST 61 16.1	•	16.3	16.3
E Y.	<b>-</b>	ì	64
PRIOR QIY CCST	•	2 5.9 102 25.3 8.2 16.1	56.1
PRI	2	102	104
SCOPE OF PROGRAM:	BASIS FOR COST ESTIMATE:	NONRECURRING KITS DATA TRAINER SUPPORT EQUIP.	TOTAL

METHOD OF IMPLEMENTATION: INSTALLATION - DEPUT/POM LEAD TIME - LB MUNTHS

MCD'FICATION OF AIRCRAFT FY-82 PROGRAM

The same of the same

FY-82 APPROPRIATION: AIRCRAFT PRECUREMENT, DIR FORCE

MCDIFICATION TITLE AND NO: ECM TRANSMITTER UPDATE, MN-2970

8-52 G/H MODELS OF ATRICHAFT AFFECTED: IPTION/JUSTIFICATION: REPLACES TWC CBSCLETF ALT 6-B ECM TRANSMITTERS PER AIRCRAFT WITH CURRENT ALT-28 SYSTEMS, INCLUDING FREQUENCY COVERAGE IN EXISTING "GAP" AND ADDITION OF INCREASED MUDULATOR PROGRAMMING CAPABILITY. THIS MODIFICATION IS REQUIRED TO PROVIDE INCREASED JAMMER POWER, FREQUENCY COVERAGE, AND TECHNIQUE PROGRAMMING AGAINST CURRENT RADAR THREAT ENVIRONMENT. DE SCRIPTION / JUSTIFICATION:

WETHOD OF IMPLEMENTATION: INSTALLATION - DEPCT/PDM LEAD TIME - 15 MONTHS

## MCDIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NC: ECM POWER MANAGEMENT, MN-2973

MCDELS OF AIRCRAFT AFFECTED: 8-52 G/H

DESCRIPTION/JUSTIFICATION: THERE IS AN URGENI CPERATIONAL RECUIREMENT FOR IMPROVED CAPABILITY OF EXISTING 3-52 G/H ALT-28 TRANSMITTER SYSTEM. INCREASED DENSITY AND SOPHISTICATION OF RADAR THREATS CAN SATURATE THE CUPRENT ECM SYSTEMS IN THE 8-52. POWER MANAGEMENT WILL SIGNIFICANTLY IMPROVE JAMMING FFECTIVENESS BY PROVIDING AUTCMATIC AND RAPID THREAT RADAR FREQUENCY SET-ON AND INITIATION OF APPROPRIATE COUNTERMEASURES PROGRAMS.

A (	COS 1	94.1	6.	67.5	6.4	6.7	8 • 8	5.3		94.1
1 0 1	5	268	-	267					1 1 1	268
OUTYFAR	017 CUST									
	017 (15)									
-82	41Y CUS1	9.8		8.6						8.6
FY-	- 1	6 4		5 7						40
-81	0 1 4 1 0 1 1 0	15.4		63 15.4 45 9.8					1 1 1	64.9 63 19.4 49 9.8
F	-	63		63						63
PRIOR		64.9	5•	38.3	4.9	6.7	8.8	ς. 3		6.49
d ;	<u>-</u>	156	-	155					1 1 1 1	156
SC CPE OF PROGRAM:		PASIS FOR COST PSTIMATE:	NOWRECURRING	KITS	DATA	TRAINER	SUPPORT EQUIP.	CIPS		TOTAL

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/PDM LEAD TIME - 15 MONTHS

MEDIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-32 APPROPRIATION: AIRCRAFT PRECUREMENT, AIR FORCE

MODIFICATION TITLE AND NG: ALCM-CARRIER AIRCRAFT, MN-3022

MGDELS OF AIRCRAFT AFFECTED: 8-526

DESCRIPTION/JUSTIFICATION: PROVIDES THE R-52G AIRCRAFT WITH THE CAPABILITY TO CARRY AND LAUNCH THE LONG RANGE AIR LAUNCHED CRUISE MISSILE. PROVIDES FOR EXTERNAL AND INTERNAL CARRIAGE.

SCCPE UF PROGRAM:

	PR IOR				OUTYEAR	0 -	T A L
	UTY CCST	QTY CCST	CTY CCST	DIY CEST	QTY COST	OTY	QTY COST
	1 1 1 1				1 1 1	1	1 1
	25 115.9				26 421.0	172	935.5
BASIS FOR COST ESTIMATE:							
SAI ABOURE INC	4.6	1.9					9.5
KITS	25 23.9	40 34.9	40	40.7 41 47.5	26 52.0	172	199.0
DATA	4.6	1.4			1.6		7.6
TRAINER	1.3						1.3
SUPPORT EQUIP.	1.8	2.3	1.6	1.9	8,		8.4
TCOL ING	41.7			30.0	12.0		83.7
PYLOW	38.0	15.6	75.7	84.0	51.0		324.3
LAUNCHERS				2.0	210.2		212.2
BOMB BAY (INT)				••	93.4		93.5
	*****	;					!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
TOTAL	25 115.9	25 115,9 40 116,1	40 118.9	118.9 41 167.6	26 421.0	172	939.5

METHOD OF IMPLEMENTATION: INSTALLATION - DEPCT/POM LEAD TIME - 26 MONTHS

MODIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPROPRIATION: AIKCRAFT PROCUREMENT, AIR FCROE

MODIFICATION TITLE AND NO: AVIONICS MODERNIZATION, MN-3023

MCDELS OF AIRCRAFT AFFECTED: 8-52 G/H

SYSTEM SUFFERS FROM LOW RELIABILLITY, HIGH SUPPORT COST AND INADEQUATE CAPABILLITY THUS REDUCTNG WEAPON SYSTEM EFFECTIVENESS. UPDATE REPLACES PRESENT ANALCG SYSTEM WITH A DIGITAL SYSTEM AND STATE-DF-THE ART SENSURS AND SUBSYSTEMS. NEW SYSTEM IS REQUIRED TO MEET THE STRATEGIC BOMBER MISSION PEQUIREMENTS AND TO INTERFACE WITH THE INTRODUCTION OF CRUISE MISSILES ON THE B-52. PRESENT BOMBING NAVIGATION SYSTEM WAS DESIGNED USING 1950 TECHNOLOGY. DESCRIPTION/JUSTIFICATION:

T D T A L QTY COST	268 1200.3	128.0 268 766.6 46.6 78.2 171.2	
		1	
OUTYFAR QTY COST	43 162.3	17.0 43 116.1 .8 .17.4 10.7	43 162.0
FY-83 QTY COST Q	•	14.8 177.6 .9 13.6	64 206.9
FY-82 QTY CCST		26.7 169.3 1.4 12.7	210.1
FY-81 QTY COST	36 382.3 64 235.0 61 210.1		)
PRICR QTY COST	36 382.3	53.7 36 123.1 38.5 47.5 109.8	36 282.3
SCIPE UF PROGRA₩:	BASIS FOR COST ESTIMATE:	NONRECJRRING KITS DATA TRAINER SUPPORT EQUIP.	TOTAL

NETHOD OF IMPLEMENTATION: INSTALLATION - DEFCT/POM LEAD TIME - 24 MONTHS

MCDIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MCDIFICATION TITLE AND NC: ODS/FRCDS, MN-3041

MODELS OF AIRCRAFT AFFECTED: 8-52G

THE DESCRIPTION/JUSTIFICATION: THIS MODIFICATION SUPPORTS THE SALT II. 8-52 BCMBERS CAPABLE OF LAUNCHING ALCM.S MUST BE IDENTIFIABLE FROM CVERHEAD FOR SALT II/MIRV COUNTING PURPOSES. THE MOD MUST BE COMPLETED AND FULLY INTEGRATED INTO MOD/DELIVERY SCHEDULE FOR 8-52G MODS FOR OFFENSIVE AVIONICS SYSTEM AND CRUISE MISSILE CARRIAGE. IT MUST MEET THE SCHEDULE FOR FIRST DELIVERY OF MODIFIED 8-52 AIRCRAFT FOR ALCM CARRIAGE.

SCOPE OF PROGRAM:												
	<b>3</b> 0.	IOR	¥	-81	Ť	-8.2	FΥ	-83	OUT	YEAR	-	L A L
	QT Y	QTY COST	QIY	COST	QTY	COST	Q17	COST	OTY	COST	QT.Y	COST
	24	24 28 8 46 16 6 40 5.7	J.7	J . J .	1 0 4	5.7	[7	41 6.6 27 3.2	27	3.2	172	172 52.3
BASIS FOR COST ESTIMATE:	1	•	,	•	7	`	•	•	7	•	J - 4	1
NONRECURR ING		20.0										23.9
KITS	5.4	24 3.0 40	40	5.5	40	5.1	41	40 5.7 41 4.6 27 3.2	27	3.2	172	22.C
DATA		•										6•
T00L1NG		5.2		• 3								5.5
	(     	1 1 1 1 1				1 1 1 1		1 5 1 1 1		1 1 1	1	1 1 1 1 5
TOTAL	54	24 28.8 40 10.0 40 5.7 41 4.6 27 3.2	40	10.C	<b>7</b> 0	5.1	41	4.6	2.7	3.2	172	52.3

METHOD OF IMPLEMENTATION: INSTALLATION - DEFCT/POM LEAD TIME - 18 MONTHS

MODIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-32 APPROPRIATION: AIRCRAFT PRCCURFMENT, AIR FORCE

MEDIFICATION TITLE AND NO: AIRCRAFT MENITER INC CENTREL (AMAC)

MODELS OF AIRCRAFT AFFECTED: 8-520/6/H

THE NUCLEAR STOCKPILE IMPROVEMENT NEW AMAC IS REQUIRED TO INTERFACE DESCRIPTION/JUSTIFICATION: IMPLEMENTS THE AIRCRAFT PORTION OF PROGRAM FOR GRAVITY WEAPONS ON THE 8-52 D/G/H AIRCRAFT. WITH NEW AND UPDATED NUCLEAR GRAVITY WEAPCNS.

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/FIELC TEAM LEAD TIME - 24 MONTHS

MCDIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-32 ADDUDELATION: AIRCRAFT PRCCUREMENT, AIR FORCE

NUCLEAR HARDENING MCDIFICATION TITLE AND NO:

MUDELS UF AIRCRAFT AFFECTED: 8-52G/H

DESCRIPTION/JUSTIFICATION: THE PURPCSE CF THIS ELECTROMAGNETIC PULSE (EMP) MODIFICATION TO THE 8-52G/H AIRCRAFT IS TO IMPROVE THE SURVIVABILITY AND VULNERABILITY (S/V) OF THE AIRCRAFT TO NUCLEAP EFFECTS. THE MODIFICATION WILL ACORESS THE EFFECTS OF BLAST, THERMAL, AND EMP FOR THE RASIC AIRCRAFT SYSTEM VULNERABILITIES IDENTIFIED OURING ROTGE AND TESTING PHASES OF THIS PROGRAM.

SCCPE OF PRUGRAM:												
		PRIOR	ř. Y.	-81	ΡΫ́	-82	<u>,</u>	- 83	00.1	YEAR	1 0	7 A L
	5	QTY CCST	QTY	QTY CCST	ΩIY	QTY COST	ÇIY	CTY COST	QTY	QTY COST	Q1 Y	Q1 Y COS1
	į	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1	1	1 1 1 1	1	1	!	1 1	!	
			15	15 20.0	19	67 82.6	62	66.3	124	119.7	268	288.6
BASIS FOR COST ESTIMATE:	ATE:						}	) 		· · ·	<b>,</b>	
X 1 X			÷.	16.0	29	6.8.3	63	62.1	124	- 8	2.68	
DATA			\ •	2.0			<b>,</b>	90	•	9-1	2	
SUPPORT EQUIP.				2.0		2.0 13.5 3.4		3.4		•		18.9
	i		1111		1111	11111			1			
TOTAL			15	20.0	19	15 20.0 67 82.6 62 66.3 124 119.7	<b>£</b> 5	66.3	124	119.1	268	288.6

INSTALLATION - DEPCT/PDM LEAD TIME - 21 MONTHS METHOD OF IMPLEMENTATION:

MOEIFICATION OF AIRCRAFT FY-82 PRUGRAM

FY-82 APPRUPRIATION: AIRCRAFT PRECUREMENT, AIR FORCE

ALT-28 CCCLER IMPRCVEMENT, MN-184188 MCDIFICATION TITLE AND ND:

MUDELS OF AIRCRAFT AFFECTED: 8-52 0/6/H

DESCRIPTION/JUSTIFICATION: THREE ITEMS ARE CCNTRIBUTING TO LOW RELIABILITY OF THE AN/ALT-28
COUNTERMEASURES SYSTEM: RING AND SEAL ASSY RETAINING DIELECTRIC FLUIC, RELAYS, AND BUILT-IN
FAULT CIRCUITRY RESPONDING TO SPURIOUS SIGNALS OR TEMPORARY CVERLOADS. THIS MOD REPLACES THE
DYNAMIC SEAL AND PUMP ASSEMBLY, THE MECHANICAL RELAYS AND IMPROVES FAULT CIRCUITRY TO IMPROVE
ALT-28 RELIABILITY AND ENHANCE MISSION OPERATION.

SCOPE OF PROGRAM:	PRIOR FY-81 FY-82 FY-83  OTY CCST QTY COST GTY CCST GTY COST  169 11.2	617 	FY-82 FY-83 OLTYEAR COST CITY COST QITY COST A3 4.4 68 5.4 47 4.2	F Y.	F Y-83 CTY COST	01.TV 01.Y 4.7	OLTYEAR QIY COST	347	T 0 T A L 0TY COST 347 25-2
BASIS FOR COST ESTIMATE: NONRECURRING KITS	3 1.4 166 8.5 5.9	63	63 4.4 68 5.4 47 4.2	68	ک 4	47	4.2	3	22.55 2.55 2.55
TPAINER SUPPURT FQUIP.		63 4.4 68 5.4 47 4.2	63 4.4 68 5.4 47 4.2	68	5.4	4.7	4.2	347	25.2
METHOD OF IMPLEMENTATION:	INSTALLATION - CEPCT	SHL							

MCDIFICATION OF AIRCRAFT FY-82 PRUGRAM

FY-82 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: AUTCMATIC FLIGHT CONTROL SYSTEM (AFCS), MN-18420R

MODELS OF AIRCRAFT AFFECTED: 8-520

AND RELIABILITY BY ADDING A DUAL PITCH CHANNEL AND REPLACING THE MAIN AMPLIFIER, SERVO CONTROL AND STEERING COUPLER WITH CNE SCLIC STATE LINE REPLACEABLE UNIT. IT ALSO REPLACES THE COMMAND SELECTOR, FORCE TRANSDUCER, SAFETY MCNITCR, AND REMOVES THE AUTO APPROACH AMPLIFIER AND RELAY BOX. IT REPLACES THE N-1 COMPASS SYSTEM WITH A NEW ATTITUDE HEADING AND REFERENCE SYSTEM. SYSTEM RELIABILITY IS DECREASING AND THE FITCH AXIS PRESENTS A SAFETY HAZARD IN LOW LEVEL AND DESCRIPTION/JUSTIFICATION: PROVIDES FOR GENERAL IMPROVEMENT IN 8-520 AFCS MAINTAINABILITY, SAFETY AERIAL REFUEL MODES.

	_ A _	QTY COST	1	39.1		34.8	1.9	1.0	1.4	1 1 1	39.1
•	_ > -	YIO	1	78		78					78
	7FAK	CUST	1 1	79.7		26.1					26.1
į	30	01 Y	1	55		55				1 1 1 1	5 2
	. d.5	CCST	1	19 7.3 55 26.1		1.4 19 7.3 55 26.1					4 5.7 19 7.3 55 26.1
į	<u>-</u> _	ÇIX	;	61		61					19
ć	78.	CTY COST	1	4 5.7		1.4	1.9	1.0	1.4		5.7
i	<u>_</u>	Ç17	1	4		4				1 1 1 1	4
;	7 8	QTY CCST	1								
2		Q 1.Y	1								
(	YOY.	QTY CCST	1								
Ċ	ĭ	QIY	1							1	
SCCPE OF PROGRAM:					BASIS FOR COST ESTIMATE:	(115	DATA	TRAINER	SUPPORT EQUIP.		TOTAL

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/PDM LEAD TIME - 22 MONTHS

CATICN OF AIRCRAFT FY-82 PRUGRAM MCDI FICATION

FY-82 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FURCE

COMMON STRATEGIC COPPLER, MN-184418 MODIFICATION TITLE AND NO:

MODELS OF AIRCRAFT AFFECTED: 8-520

DESCRIPTION/JUSTIFICATION: THIS MCDIFICATION WILL REPLACE THE 1950 VINTAGE AN/APN-108 DOPPLER RADAR SYSTEM WITH THE NEW SULID STATE COMMON STRATEGIC DOPPLER SYSTEM. THE CURRENT MEAN TIME SYSTEM WITH THE NEW SULID STATE COMMON STRATEGIC DOPPLER SYSTEM IS 32 HOURS. IT IS ANTICIPATED THAT THE MTBF OF THE NEW COMMON STRATEGIC DOPPLER SYSTEM WILL BE 2000 HOURS. ON TWENTY PERCENT OF ALL SORTIES. FLIGHT CREWS EXPERIENCE SYSTEM DEGRADATION THAT REQUIRE WORK-ARGUND PROCEDURES OR CONTRIBUTE TO INACCURACIES IN THE BOMPING SYSTEM.

T 0 T A L QTY COST 79 24.9	5.1	2.6	24.9
0 1 0 1 0 1 0 1 0 0 1 0 0 0 0 0 0 0 0 0	1 78		61
QUTYEAR QTY COST	4.1 66 10.2		1 6.8 12 7.9 66 10.2
017 017 66	99		99
67-82 FY-83 GUIVEAR OILY COST QIY COST OIL COST	4.1	2.6	1 6.8 12 7.9 66 10.2
FY- QTY  12	12		112
FY-82 QTY CUST	1 5.1	1.7	6.8
FY- 017	-		i
PRICE FY-81 GTY COST QTY CCST			 
\(\frac{1}{2}\)			[ } !
10R COST			1
OTY PR			l     
SCCPE OF PROGRAM:	RASIS FUR COST ESTIMATE: NENRECURAING	KITS DATA TRAINER SUPPORT FQUIP.	TCOLING

- 16 MONTHS METHOS SE IMPLEMENTATION: INSTALLATION - DEPCT LEAD TIME MCDIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPROPRIATION: AIRCRAFT PRECUREMENT, AIR FCRCE

REFURBISH MB-41 CCCKPIT PROCEDURES TRAINER, MN-18548B MUDIFICATION TITLE AND NC:

MOSELS OF AIRCRAFT AFFECTED: 8-520

IPTION/JUSTIFICATION: #8-41 (8-52D) CCCKFIT PROCEDURES TRAINERS (CPTS) IN SAC INVENTORY ARE APPROXIMATELY 25 YEARS ULD AND HAVE ACCUMULATED OVER 3CO,000 TOTAL TRAINING HOURS. THE EXISTING TRAINERS WILL BE RECUIRED TC PROVIDE AN ACDITIONAL 300,000 TRAINING HOURS AND MUST BE SUPPORTED FOR 20+ YEARS. CURRENT TRAINERS ARE RAPIDLY BECCMING UNSUPPORTABLE. PRIME COMTRACTOR IS CUT OF BUSINESS. THIS MOD WILL COMPLETELY REFUREISH EXISTING TRAINER INCLUDING PRUVISION OF NEW DIGITAL COMPUTER. DESCRIPTION/JUSTIFICATION:

SCOPE OF PROGRAM:

T O T A L QTY COST	9.8	5 8.5	9.8	
7 0 4 0 1 V		-		
CUTYEAR QTY COST				
F Y-83 QIY CUST	5 8.6	5 8.5	5 8.6	
FY-82 QTY CUST				Ş
FY-81 QTY CCS1				STALLATION - DEPCT LEAD TIME - 17 MCATHS
PRIOR QTY CCST			1	INSTALLATION - DEPCT LEAD TIME - 17 MEN
	BASIS FOR COST ESTIMATE:	KITS SUPPORT EQUIP.	TOTAL	METHOD OF IMPLEMENTATION:

### MUDIFICATION OF AIRCRAFT FY-82 PRUGRAM

FY-82 APPRUPRIATION: AIRCRAFT PRCCUREMENT, AIR FORCE

MUDIFICATION TITLE AND NOT: MODERNIZE DEFENSIVE FIRE CONTROL, MN-19611B

MUDELS OF AIRCRAFT AFFECTED: 8-52 F

RAPIDLY, AS WELL AS THE CENDEMNATION RATE OF THE CEMPONENTS. THIS RESULTS IN HIGH LESISTICS SUPPORT COSTS. THIS WODIFICATION WILL REDUCE THE NUMBER OF LINE REPLACEABLE UNITS, UPDATE THE SYSTEMS TO CURRENT TECHNOLOGY, AND PROVIDE LOGISTICALLY SUPPORTABLE SYSTEMS. THE IMPROVED PERFORMANCE WILL ENHANCE MISSION ACCOMPLISHMENT. PESCRIPTION/JUSTIFICATION: THE FAILURE RATE OF THE ASG-21 FIRE CONTROL SYSTEM IS INCREASING

	T O T A L CIY COST	1 1 1			53.0	9.1	9.1	1 1 1 1 1 1	71.2
	ر ۲ ۲۵	1 1	96		96			1 1 1	96
	DUTYFAR GIY COST							!!!!!!!!!!!	
	FY-83 DUTYFAR UTY CGST GTY COST	!						! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	
	FY-82 017 COST		33 15.3		33 19.3				33 19.3
	FY-81 01Y COST 6		56 35.5		4 2.4 59 31.3 33 19.3		4.2	1	4 16.4 59 35.5 33 19.3
	PRIOR OIY COST O		4 16.4 59 35.5 33 19.3		4 2.4	6.1	6.4		4 16.4
SCIOPE OF PROGRAM:				BASIS FOR COST ESTIMATE:	×118	UATA	SUPPORT EQUIP.	i	TOTAL

METHOD OF IMPLEMENTATION: INSTALLATION - CRC/FIELD LEAD TIME - 22 MCNTHS

CF AIRCRAFT MCUIFICATICN

FY-82 PRUGRAM

FY-82 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

LUW ALTITUDE RACAR ALTIMETER, MN-400038 MODIFICATION TITLE AND NC:

8-52C MODELS OF AIRCRAFT AFFECTED:

THIS INSTALLATION WILL IMPROVE THE RELIABILITY OF THE SYSTEM AND ELIMINATE THE ECM INTERFERENCE PROBLEM EXPERIENCED IN THE APN-150 SYSTEM. THE MEAN TIME BETWEEN FAILURE (MTBF) FOR THE AN/APN-150 IS 44 HOURS. THE MIRF FOR THE AN/APN-224 IS ESTIMATED AT 1875 HOURS. DESCRIPTION/JUSTIFICATION: THIS MODIFICATION WILL REPLACE THE 1950 VINTAGE AN/APN-150 KADAR ALTIMETER SYSTEM WITH THE NEW SCLID STATE DIGITAL LOW ALTITUDE RADAR ALTIMETER AN/APN-224.

SCCPE OF PROGRAM:

	PRICE	æ	Ε¥	-81	Ϋ́	-82	FΥ	-83	COL	YEAR	C	٦ ٧ .
	QTY COST	. OST	QIY	QTY CCST	QTY	CCSI	Q14	QTY CCST QTY CCST	01 Y	OTY COST	ÇTY	QTY COST
	!	1			!	!!!	-	1	!!!	1	1	1 1 1
					٦	5.3	12	5.9	99	66 7.6	42	15.8
BASIS FOR COST ESTIMATE:												
NONRECURR ING					-	1 3.6						3.6
KITS							12		1.0 66 7.6	7.6	78	8.6
DATA						1.7						1.7
TRAINER								1.0				1.0
SUPPORT EQUIP.								œ				σ.
TOOL ING								٦.				-
	!!!!		-	1 1 1	-	1	1 1	***** **** **** **** ****	-		! ! !	
TOTAL					-	5.3	12	1 5.3 12 2.9 66 7.6	99	7.6	61	15.8

INSTALLATION - DEPOT METHCO OF IMPLEMENTATION:

- 16 MONTHS LEAD TIME

#### CF AIRCRAFT FY-82 PROGRAM MCDIFICATION

FY-32 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

20MM LINKLESS FEEC, MN-67069B MUDIFICATION TITLE AND NC:

MODELS OF AIRCRAFT AFFECTED: 8-52F

SYSTEM DEMONSTRATES APPROX 60% RELIABILITY. PRINCIPAL CAUSES ARE AMMU CAM, CROSS—GVER AND CAUTE JAMS. MAINTENANCE CFTEN INVCLVES EXTENSIVE SPEET METAL WCRK WHICH IS TIME CONSUMING AND COSTLY. PERIOCIC MAINTENANCE ON THE DRUM OCCURS AT 30,000 ROUND INTERVALS AND ON CONVEYOR SYSTEMS AT 15,000 RCUND INTERVALS. BY CHANGING TO THE LINKLESS SYSTEM, REDUCED MAINTENANCE ADOLD RESULT WITH RELIABILITY INCREASED TO APPROX 92 PERCENT. DESCRIPTION/JUSTIFICATION: PRESENT AMMO FEED/STORAGE SYSTEMS ARE ANTIQUATED. THE LINKED AMMO

A L	QTY COST	11.5		1.5	4.8	11.5
1 0 1	VIO	96		1	c &	96
FAR	C0 S T	1 1 1				! ! !
CULY	QIY	!				
-83	QTY COST QTY COST	1.2		-	7 • 1	78 8.6 17 1.2
F.Y.	QTY	17			1	. 11
FY-82	OTY COST	78 8.6 17 1.2		Ċ	7.7 11 0.0 01	78 8.6 17 1.2
F Y-	VIO	7.8		•	0	7.8
FY-81	CCST	!!!!				 
Ļ Ł	QIY	1				
PRICR	OTY CCST QTY CCST	1 1.7		1 1.5	• 2	
g.	01 Y	-		1		
			RASIS FOR COST ESHIMATE:	NOGRECURAING	n i i s Oata	Tefal

INSTALLATION - CRG/FIELD - 13 MONTHS LEAD TIME METHOD OF IMPLEMENTATION:

MCCIFICATION OF AIRCRAFT FY-82 PROGRAM

IN APPRUPALATION: AIRCRAFT PROCUREMENT, AIR FORCE

HOFFICATION TITLE AND MOST AIRCRAFT MONITCR AND CONTROL (AMAC)

MUNELS JE AIRCHAFT AFFECTED: FB-111

DESCRIPTION/JUSTIFICATION: IMPLEMENTS THE AIRCRAFT PORTION OF THE STOCKPILE IMPROVEMENT PROGRAM FOR GRAVITY WEAPONS ON THE FB-113 AIRCRAFT. NEW AMAGE REQUIRED TO INTERFACE WITH NEW AND UPDATED NUCLEAR GRAVITY WEAPONS.

T 0 T 4 L QTY COST		5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5		4.9 99
OUTVEAR QTY COST				 
FY-83 5T GTY CCST 		30 1.6 36 2.1		30 2.7 36 3.7
FY-82 T QTY COST G		30 1		
FY-81 0TY CCST				
PRICR QTY COST				
SCCPC OF PROGRAM:	BASIS FOR COST ESTIMATE:	NEMARCURA ING KITS	CATA TRAINER CURRORT FORTR.	TOTAL

METHOO OF IMPLEMENTATION: INSTALLATION - DEPCT/FIELD TEAM LEAD TIME - 12 MONTHS

AIRCRAFT MODIFICATICA CF AIR FY-82 PROGRAM

FY-82 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FORCE

WEAPCH IMPROVEMENT AND SERVICE EXTENSION, MN-182458 MODIFICATION TITLE AND NC:

MODELS UF AIRCRAFT AFFECTED: F-106A/B

FAILURE OF THE PRESENT SYSTEM IS 2 HOURS. THIS MOD WILL IMPROVE IT TO 37 HOURS AND EXTEND THE SERVICE LIFE OF THE RADAR INTO THE 1990"S. THE LOW RELIABILITY AND CURRENT CRITICAL SUPPORTABILITY OF THE PRESENT SYSTEM IS ADVERSELY AFFECTING MISSION CAPABILITY OF THE ENTIRE DESCRIPTION/JUSTIFICATION: THIS MCD REPLACES THE RADAR INCICATCR AND 19 RADAR LINE REPLACEABLE UNITS. WITH A STATE-OF-THE-ART INDICATCF, PROCESSOR, AND MAGNETRON. THE MEAN TIME BETWEEN F-106 INVENTORY.

T 0 T A L QTY COST 207 72.0	11.9 43.2 6.4 3.6 6.9
1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	203
CLTYEAR QTY COST  124 29.0	79 19.1 124 24.1 3.3 3.6 2.0 79 28.0 124 29.0
CLT QTY  124	124
FY-83 CLTY QTY CCST QTY  75 28.0 124	4 11.9 79 19.1 124 24.1 3.1 3.1 3.1 3.6 24.1 2.0 4.9 4.9 4.15.0 79 28.0 124 29.0
FY 017  75	97
82 COST  15.0	3.1
F Y-	4   4
FY-81 QTY CCST	
	† † †
PRIOR QIY CCSI	
P.R. Q.T.Y	;
SCCPE OF PROGRAM: BASIS FOR COST ESTIMATE:	NONRECURRING K ITS DATA IPAINER SUPPORT FQUIP.

LEAD TIME - 34 MONTHS METHOD OF IMPLEMENTATION: INSTALLATION - CEPCT

AIRCRAFT FY-82 PRUGRAM MODI FICATION

FY-32 APPRUPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

X BAND TRANSISTER ASSY., MN-18246B MODIFICATION TITLE AND NO:

F-106 MODELS OF AIRCRAFT AFFECTED:

SYSTEM. THE PRESENT RADAR RECEIVER HAS A LOW RELIABILITY AND A PARAMETRIC AMPLIFIER WHICH IS ADBOLETE AND BECOMING LOGISTICALLY UNSUPPCRTABLE. THE LCGISTICS SUPPCRT COST OF THE PRESENT RECEIVER IS APPROXIMATELY \$3.0 MILLION PER YEAR. THE NEW RECEIVER WHICH CONSISTS OF AN X BAND TRANSISTOR AND ASSEMBLY WILL REDUCE THE ANNUAL SUPPCRT COST TO ONE THIRD OF THE CURRENT COST. DESCRIPTION/JUSTIFICATION: INCORPCRATES A NEW RADAR RECEIVER INTO THE MA-1/ASQ-25 FIRE CONTROL THE LOW RELIABILITY OF THE PRESENT RADAR RECEIVER CAUSES F-106 MISSICN DEGRADATION.

PROGRAM:	
SC CPE OF	

	₩ d	1CR	FΥ	-81		-82	Ţ	-83	OLT	YEAR	0 1	AL
	OTY	QTY CCST	CIY	CTY CCST		QTY COST	QIX	QTY CCST	V 10	01Y COST	710	QTY COST
	1	1	!	1		1	1	! ! !	1			
	-	1 1.9		21 6.0	146	146 11.3 39 3.5	38	3.5			207	22.7
BASIS FOR CUST ESTIMATE:												
NONRECURRING		1.7										4.8
KITS	-		21	1.3	146	146 9.8 39 2.9	39	2.9			207	14.1
DATA				۲.								. 8
TRAINER				• 5								• 5
SUPPORT EQUIP.				4.		1.5		9.				2.5
10141	-	1 1.9 21 6.0 146 11.3 39 3.5	21	6-1 146	146	11.3	39	3.5	1	! ! !	207	22.1

INSTALLATION METHOD OF IMPLEMENTATION:

- DEPCT - 32 MONTHS LEAD TIME

MJDIFICATION OF AIFCRAFT FY-92 FROGRAM

FY-32 APPAGMAIATICH: AIRCAAFT PAOCUMEMENT, AIR FORCE

MODIFICATION TITLE AND NOT HE-42/42A DET UPDATE, MN-194(3P

MODELS OF AIRCRAFT AFFECTED: F-136 SIMULATOR

DESCRIPTION/JUSTIFICATION: THE MB-42/42A IS 1950 TECHNOLIGY UTILIZING OBSOLETE ANALOG DESIGN. THE MODIFICATION MILL PROVIDE STATE-JE-THE-ART SIMULATION THROUGH USE OF DIGITAL TECHNOLOGY FOR TRAINGRED FOR TRAINGROUP ON PATIBILITY. JUSTIFICATION FOR THIS MODYFICATION IS INCREASED AVAILABILITY FOR THAINING, INCREASED TRAINER FIDELITY REDUCED LOGISTIC SUPPORT COST AND ARBILITY TO UPDATE TRAINER TO CURRENT AIRCRAFT TACTICS BY SOFTWARE CHANGE IN LIEU OF MORE COSTLY ANALOG HARDARE CHANGE.

SCOPE OF PRIGRAM:												
	D.S.	2	Ţ	-81	FY	, <b>,</b> ;	<u></u>	-83	001	YEAR	0	TAL
	\ \ C	CUST	ΥTÇ	C1351	Q T Y	2TY CUST 2TY CUST 6TY CLST 6TY COST 6TY COST	QIY	COST	ÇIY	COST	ΥTØ	QTY COST
	:		;	1	:		:		!	1	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	1 1 1 1
							9	6 6.0 6 5.0	9	5.0	12	11.0
BASIS FOR COST ESTIVATE:												
X H							ç	6 4.8 6 5.0	9	5.0	12	9.6
SUPPORT EQUIP.								1.2				1.2
				1			1		!		1 1 1	
TOTAL							•	6 6.0 6 5.0	ç	5.0	12	12 11.0
METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT	INSTAL	La11.)	ă I	FPDT								

- 18 MONTHS

LEAD TIME

MODIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPRUPRIATION: AIRCRAFT PRCCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: VOR/ILS/MARKER BEACCN, MN-222458

MCDELS OF AIRCRAFT AFFECTED: F-106

DESCRIPTION/JUSTIFICATION: REPLACE THE PRESENT ILS SYSTEM WITH A VCR/ILS SYSTEM. THE PRESENT ILS SYSTEM. THE PRESENT ILS SYSTEM IS AN GLD TUBE TYPE SYSTEM AND IS CIFFICULT TO MAINTAIN IN AN ALIGNED STATE DUE TO COMPONENT DRIFT. THIS DRIFT RESULTS IN INCORRECT OR NO GLIDE SLOPE OR LOCALIZER SIGNALS BEING PRESENTED TO THE PILOT. THE NEW EQUIPMENT IS PREDICTED TO IMPROVE RELIABILITY APPROXIMATELY

SCOPE OF PROGRAM:

T D T A L QTY COST	7.6 017	0•1	210 3.1	4.5	5.	210 9.2
OUTYEAR QTY COST					         	
6Y-83 QTY COST	•			4.5	1	4.5
FY-82 QIY COST	•	1.0	210 3.1	• .	ر• 	210 4.7
FY-81 QTY COST						
OTY COST						
	BASIS FOR CUST ESTIMATE:	NONRECURRING KITS	DATA	TRAINER SUPPORT FOUTP		TOTAL

METHOS OF IMPLEMENTATION: INSTALLATION - DEPOT

LEAD TIME - 21 MENTHS

## MODIFICATION

FY-82 PROGRAM

FY-32 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

TF-41 HP TURBINE, MN-47816B MUDIFICATION TITLE AND NO:

MODELS OF AIRCRAFT AFFECTED: A-7DITF-41 ENGINE)

DESCRIPTION/JUSTIFICATION: THE TF-41 HAS FAC SERICUS PROBLEMS WITH FALLURES IN THE HOT SECTION, IN MANY CASES DIRECTLY RELATED TO THE SECCND-STAGE HIGH PRESSURE TURBINE BLADE. NUMEROUS FAILURES HAVE RESULTED IN A SAFETY-CF-FLIGHT PROBLEM AND GROUNDING OF AIRCRAFT WHILE THE ENGINE WAS FORCED INTO THE OVERHAUL LINE. THIS MOCIFICATION PROVIDES A LONG TERM CORRECTION FOR THE HIGH PRESSURE TURBINE FAILURES.

SCOPE OF PROGRAM:  BASIS FOR COST ESTIMATE:	917 217 30	PRIOR FY-81 QTY COST QTY COST	A 7 10 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	81 COST		FY-82 FY-83 QTY COST QTY COST 134 7.5	FY 01Y  134	-83 COST 7.5	0UT 0TY 237	OUTYEAR QTY COST 237 13.5	1 0 1 Q1Y  535	T D T A L QTY COST 535 32.2
NONRECURA ING KITS	30	30 2.5			134	134 7.9 134 7.5 237 13.5	134	7.5	237	13.5	535	31.4
TOTAL	30	30 3.3	       	1 ! !	134	134 7.9 134 7.5 237 13.5	134	7.5	237	13.5	535	535 32.2

9 MONTHS INSTALLATION - DEPOT LEAD TIME - 9 MOI METHOD OF IMPLEMENTATION:

MCDIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-32 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FCRCE

MODIFICATION TITLE AND NC: AMPLIFIER REPLACEMENT, MN-488468

MODELS OF AIRCRAFT AFFECTED: A-7, TF-41

3. NU PARTS DESCRIPTION/JUSTIFICATION: NEW CESIGN AMPLIFIER TO REPLACE EXISTING CAPACITOR, WHICH HAS A
DETRIMENTAL FAILURE HISTORY OF 965 FAILURES INCLUDING ONE AIRCRAFT LOSS AND 4 INFLIGHT
EMERGENCIES. NEW DESIGN INCRPCRATES INTEGRATED PRINTED CIRCUITRY WITH THE FOLLOWING
ADVANTAGES: 1. 10% REDUCTION IN NEW COST. 2. 50% REDUCTION IN REPAIR LABOR. 3. NO
OBSOLESENCE. 4. 16% FEWER PARTS. 5. PRECISION CONTROL OF ENGINE LIMITS.

SCCPE OF PROGRAM:

BASIS FOR COST FSTIMATE:	PRICE FY-81 QTY COST QTY COST		FY-82 QTY CCST 210 4.3	FY QTY  166	FY-83 QTY CCST 166 3.0	OUTYEAR QTY COST  159 3.3	COST	T 0 0TY 535	T 0 T 4 L QTY COST
KITS DATA TOOLING		210	6 0 . • •	166	210 3.9 166 3.0 159 3.3 .1	159	3•3	535	10.2
TUTAL		210 4.3 166 3.0 159 3.3	4.3	166	4.3 166 3.0 159 3.3	159	3.3	535	10.4
METHOD OF IMPLEMENTATION:	INSTALLATION - DEPOT/FIELD	0.131:						: •	

LEAD TIME - 12 MCNTHS

MCDIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: DIGITAL SCAN CONVERTER, MN-68C45B

MODELS OF AIRCRAFT AFFECTED: A-10

PTION/JUSTIFICATION: MODIFICATION WILL REPLACE TWC LINE REPLACEABLE UNITS (LRU) WITH THE OIGITAL SCAN CONVERTER. THE AN/APG-12¢ RACAR DISPLAY SUB-GROUP INSTALLED IN A-7D AIRCRAFT IS EXPERIENCING A LOW MEAN TIME BETWEEN FAILURE (MTBF) RELIABILITY OF 80 HOURS. THE COMBINED MTBF OF THE PROPOSED DIGITAL SCAN CCNVERTER GROUP IS 500 HOURS BASED ON MORE THAN TWO YEARS OF FLYING IN AN OPERATIONAL ENVIRONMENT. DESCRIPTION/JUSTIFICATION:

SCOPE OF PROGRAM:

	4 L COST 	18.5 4.5 3.9	23.3
	T 0 T A L 0TV COST  359 23.3	359	359
	FY-83 OLTYEAR QTY CCST QTY COST	2.5	2.5
	FY-83 QTY CCST	<b>5</b> •0	5.0
	F Y- QT Y  87	87	87
	FY-82 QIY CCSI	80 3.2 192 10.3 87 5.0 .4 .5 .4 1.0	80 4.5 192 11.3 87 5.0
	67- 017 192	192	192
	FY-81 ITY CCST 	8 2 4 5 4	80 4.5 192
	617 017  80	80	80
	PRICR FY-81 QTY CCST QTY CCST		
- EX 4004 - 0 1 5000	BASIS FOR COST ESTIMATE:	KITS DATA TRAINER SUPPORT EQUIP.	TOTAL

MCDIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-32 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

INERTIAL NAVIGATION SYSTEM (INS), MN-3048 MODIFICATION TITLE AND NO:

MODELS OF AIRCRAFT AFFECTED: A-10

DESCRIPTIUN/JUSTIFICATION: INS WILL PROVICE AN AUTONOMOUS NAVIGATICN CAPABILITY. LOW LEVEL TACTICS IMPOSED BY COMBAT ENVIRONMENT PRECLUDES RELIANCE UN EXTERNAL NAVIGATIONAL AIDS. EUROPEAN TERRAIN AND WEATHER DICTATE AUTONOMOUS CAPABILITY IN TACTICAL SITUATIONS. A-10 NAVIGATION REQUIREMENT DOCUMENTED IN CPERATICNAL EVALUATIONS.

A L		202.1		3.3	198.1	410 202.1
I C I	1503 413	4 10			604	4 10
DUTYEAR	OIV CESI CIV CUSI	67 26.8 64 28.2 63 29.4 216 117.7			66 22.8 64 28.2 63 29.4 216 117.7	67 26.8 64 28.2 63 29.4 216 117.7
83	CCSI	29.4			59.4	29.4
, F.	2	63			63	63
-8.2	1523	28.2			28.2	28.2
- <b>,</b>	710	64			49	49
-81	C051	26.8		6) 6)	22.8	26.8
F Y	۲ <u>۱</u>	67		-	99	67
PRIOR FY-81 FY-82	1503					
9	V T Q					
SC CPE OF PROGRAM:			BASIS FOR COST ESTIMATE:	NOWRECURE ING	KITS DATA	TOTAL

MFTHOD OF IMPLEMENTATION: INSTALLATION - DEPCT LEAD TIME - 24 MONTHS

MUDIFICATION OF AIRCRAFT FY-82 FROSRAM

FY-82 APPHOPRIATION: AINCRAFT PROCUNEMENT, AIR FORCE

MODIFICATION TITLE AND NOT SEEK TALK

MODELS OF ALGORAFT AFFICTED: AFIL

DESCRIPTION/JUSTIFICATION:

SCOPE OF PROSRAM:	PK103 21Y C3ST	۶۲۷ ۱۲۷	FY-51 2TY CJST	7 H O	FY-E2 0TY C(ST	1	-83 COST	DUTYEAR QTY COST	EAR COST 	0 1 0 1 0 1	T 0 T A L 0TY COST 71.5
BASIS FOR COST ESTIMATE:											
			•				5.4				5.4
KITS CONT. 10							2.0		55.2		57.2
DATE							1.2				1.2
0.00 ± 7							3.2		2.7		5.9
SUPPIRE EQUIP.							9.		1.2		1.8
			1 1 1 1			1 1 1 1	1			!	
TOTAL							12.4		59.1		71.5
METHOD OF IMPLEMENTATION:	INSTALLATION - OCPOT LEAD TIME - 12 MONTHS	1 1 7 3	POT	НS							

MCOLFICATION OF AIRCRAFT FY-82 PRUGRAM

ry-32 appropriation: Aircraft precurement, air force

MODIFICATION TITLE AND NG: DOUBLE BAFFLE CEFLECTOR, MN-10336A

MCHELS OF AIRCRAFT AFFECTED: A-10

DESCRIPTION/JUSTIFICATION: A DOUBLE BAFFLE DEFLECTOR IS TO BE ADDEC TO THE BARRELS OF THE GAU B GUN TO DEFLECT THE GUN GAS DOWNWARD AWAY FROM THE AIRCRAFT. WILL ELIMINATE ENGINE INTAKE GUN GAS INGESTION WHICH CAUSES COMFRESSOR STALLS. IN ADDITION, BENEFITS WILL ACCRUE FROM A REDUCTION IN CORROSION TO THE ALUMINUM AIRCRAFT SKIN.

A L COST	2.	11.9	•1	• 2	12.7	
T 0 T A L QTY COST 618 12.		6 18				
OLTYEAR QTY COST 268 5.6		5.6		ı	7 4	0 • 0
00.TY 0TY 268		268			1 2	207
.83 CGST 2.6		134 2.5 134 2.6 268 5.6				7.6
FY- GIY 134		134				134
82 CCST 2.5		2.5			1 1	2.5
FY- CTY  134		134				134
GIY CCSI CIY CCSI CIY CCSI CIY CCSI C C C C C C C C C C C C C C C C C		1.2	<b>;</b> ; '	• • • • • • • • • • • • • • • • • • • •	1 1 1	82 2.0 134 2.5 134 2.6 268 5.0
		83				82
PRIDR QTY CCST					10111111	
SCOPE OF PROGRAM:	BASIS FOR COST ESTIMATE:	NONRECURATES KITS	DATA TRAINER	SUPPORT FOUTP.	100cm	TOTAL

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/FIELD TEAM LFAD TIME - 12 MCNIHS MCDIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MCDIFICATION TITLE AND NC: CUTER WING FATIGUE RESKIN, MN-10338P

MCDELS OF AIRCRAFT AFFECTED: A-10

DESCRIPTION/JUSTIFICATION: DURING ACCELERATES TESTING TO DETERMINE FATIGUE LIMITS OF THE AIRFRAME,
A MAJOR FAILURE UCCUPRED ON THE LEFT TEST WING. THE LUWER SKIN, 25 INCHES DUT-BOARD OF THE
LANDING GEAR PED, COMPLETELY FAILED FROM THE FRONT SPAR TO THE REAR SPAR, ALONG WITH ALL THREE
LUWER SPAR CAPS AND THE UPPER FRONT SPAR CAP. THE INCIDENT OCCURRED DURING AN EXTENDED TEST
PROGRAM OF 2.30 LIFETIMES (13,800 FRS).

CEPE OF PROSRAM:

T 0 T A L GTY COST  421 33.8	1.5 28.4 .1 3.8	33.8
7 0 7 CTY 421	419	4 21
0UTYEAR QTY COST 	12.0	12.0
0UT QTY  158	158	158
61Y 66S1 41Y 66S1 41Y 60S1	6.1	92 6.1
FY UTY	92	. 25
-82 CGST  5 • 5	تن • ت	5.5
FY:	26	95
FY-81 QTY COST QTY 38 4.1 92		41 6.1 38 4.1 92 5.5 92 6.1 158 12.0
017 017 38	æ	ι α.   α.   α.
CR CCST	2 1.5 29 2.5 .1 2.0	<b>6.1</b>
PKI FTY FI FI	56	4 1
BASIS FOR CUST ESTIMATE:	NONRFCJRRING KITS DATA TOSLING	TCTAL

METHOO DE IMPLEMENTATION: INSTALLATION - DEPOT LEAD TIME - 12 MONTHS

MCCIFICATION OF AIRCRAFT FY-82 PRUGRAM

FY-32 APPRUPRIATION: ALBURAFT PROCUREMENT, ALM FURCE

MCDIFICATION TITLE AND NO: EUS GLOLING CAPACITY, MM-103408

MUDELS OF AIRCRAFT AFFECTED: A-10

DESCRIPTION/JUSTIFICATION: AS A RESULT OF NUMERCUS PILCT COMPLAINTS, SERVICE REPORTS AND HUMAN FACTORS TESTING AT DAVIS MOUTHAN AFE, AN INCREASED COCLING CAPACITY FOR THE COCKPIT DURING GROUND OPERATIONS AND LOW LEVEL FLIGHT IS REQUIRED. A SECOND, IDENTICAL COOLING UNIT WILL BE ADDED. THE COCKPIT DUCTING WILL BE REVISED TO ALLOW SEPARATE COOLING OF COCKPIT ELECTRONICS AND THE AIRCREW BY THE SEPARATE COCLING UNITS. THIS CUNFIGURATION IS CURRENTLY INSTALLED IN THE IND PLACE AIRCRAFT.

COST	16.7	1.2	16.7
T U T A L QTY COST	555	555	555
OUTYEAR QTY COST	7.3	7.3	7.3
00TY	556	256	256
-83 CCST	3.2	e. C:	3.2
FY-	120	120	120
82 CCST	2.5	2.5	2.5
FY- 017	00 <b>1</b>	100	100
PRICR FY-81 FY-82 FY-83 QTY CCST QTY CCST QTY CCST	3.1	1.2 79 1.8 100 2.5 120 3.2 256 7.3 .1	79 3.7 100 2.5 120 3.2 256 7.3
-Y = -Y = -	18	62	51
I CR CCS T			 
PR QTY			] 
SCOPF OF PROGRAM:	BASIS FOR CUST ESTIWATE:	NOURECURAING KIIS DAIA IRAINER	TETAL

METHOO OF IMPLEMENTATION: INSTALLATION - OFPET LEAD TIME - 14 MORTHS

MCDIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPRUPTION: AIRCHAFT PROCUREMENT, AIR FORCE

MCDIFICATION TITLE AND NO: FLIGHT CONTROL CLEARANCE, MN-103424

MUDITIES OF AIPCRAFT AFFECTED: A-10

CONTROLS IN FY79. HOWEVER, THROUGHOUT THE REWAINCER OF THE FUSELAGE, NUMEROUS FLIGHT CONTROLS HAVE CLEARANCES LESS THAN 1/4 OF AN INCH AND MANY CONTROL RCD CONNECTORS HAVE UPSIDE DOWN BOLTS. THIS LAST CONDITION VICLATES FAILSAFE PROCEDURES IN THAT IF THE NUT & BOLT SEPARATE, THE OUT WILL FALL OUT AND CAUSE LCSS OF CONTROL AND POSSIBLE JAMS. DESCRIPTION/JUSTIFICATION: INTRUSION OF FOREIGN CBJECTS INTO THE FLIGHT CONTROL SYSTEM HAS BEEN ADDRESSED BY FCP F2771 AND F3055. BCTH ADDRESS CRITICAL AREAS IN THE COCKPIT AND WERE

A	CCST	<b>5. 5</b>		r.	3.6	-	• 5	1	4.4
1 0 1	OIY CCST	415			475			1	475
/EAR	01Y COST	6.			6.			1	6.
00.13	710	115			115				115
رب م	OIY COST	180 2.1 180 3.4 115 .9			1.3 180 1.4 115				180 2.1 180 1.4 115 .9
, ,	V10	180			180				180
.82	QTY COST	2.1		R			• 2		2 • 1
<u>}</u>	Q1.Y	180			180			1 1 1	180
18-	QTY COST							11411	
<u>}</u>	ZI O							1 1	
PRICE	UTY CCST								
d. Y	710							1 1	
SCOPE OF PROGRAM:		THE WILL BOD COST STORES	CHOIS LONG CICHO	NOTRECORRING	X 11S	DATA	TRAINTR		IFTAL

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT LEAD TIME - 12 MCNTHS

DEPUTY CHIEF OF STAFF RESEARCH DEV AND ACQUISITION (A--ETC F/6 5/1 DEPARTMENT OF THE AIR FORCE JUSTIFICATION OF ESTIMATES FOR FISC--ETC(U) JAN 81 AD-A099 029 NL. RDXM-AC-82-3 UNCLASSIFIED 204 AD A 0 98029

# MCDIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FORCE

MODIFICATION TITLE AND NC: APU FUEL CCNTROL, MN-103438

MODELS OF AIRCRAFT AFFECTED: A-10

FUEL SYSTEM. THE EXISTING LCW PRESSURE FUEL SYSTEM HAS EXHIBITED SEVERE IN-SERVICE
RELIABILITY PROBLEMS RELATING TO DIAPHRAGY FAILURES, PUMP SHAFT FAILURES, GOVERNOR INSTABILITY
AND AIR PUMP FAILURES. IN ACDITION TO ALLEVIATING THESE PROBLEMS BY NOT USING A DIAPHRAGM,
THE HIGH PRESSURE SYSTEM WOULD PROVIDE IMPROVED TEMPERATURE CONTROL DURING START, ELIMINATE
THE STARTER AIR PUMP ASSEMBLY, AND WILL PROVIDE A MORE CONSISTENT START TIME OVER A WIDER
RANGE OF ALTITUDE AND TEMPERATURE THAN CURRENTLY AVAILABLE. THIS MCDIFICATION IS A CHANGE FROM A LOW PRESSURE TO A HIGH PRESSURE DESCRIPTION/JUSTIFICATION:

	TOTAL	QTY COST		538 4.6		538 4.6		5.38 4.6
	OUTYEAR	QTY CCST QTY COST	1 1 1 1 1					
	/-83	CCST	! !			2.3		2.3
	F	710	!	300		300		300
	-82	QTY COST	1	238 2.3 300 2.3		238 2.3 300 2.3		238 2.3 300 2.3
	Ŧ	ΩT	!	238		238		238
	FY-81	T QTY CCST Q						
	PRICR	QTY COST						
	Q.	710	i		**		1	
SCCPE OF PROGRAM:					BASIS FOR CCST ESTIMATE:	KITS		TOTAL

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT

LEAD TIME - 24 MONTHS

MCDIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FORCE

MODIFICATION TITLE AND NC: FAN SHAFT/B SUMP FIX, MN-10344A

MODELS OF AIRCRAFT AFFECTED: A-10

DESCRIPTION/JUSTIFICATION: TWO FAN SHAFT FAILURES HAVE OCCURRED ON ENGINES DUE TO INTERNAL OIL FIRES, WITH THE OIL COMING FRCM THE B SUMP. AT LEAST FOUR OTHER ENGINES ARE KNOWN TO HAVE DVERHEATED OIL & D-RINGS. A SAFETY OF FLIGHT ITEM.

SC CPE OF PROGRAM:	i	1	ļ	,	i	•	i	;	į	, ,		
	01¥	PRIOR FY-81 QTY COST QTY COST	ρ. 719	-81 COST		FY-82 QTY COST	017 7	FY-82 FY-83 QTY COST QTY CGST	00T	OUTYEAR QTY COST	0 T 0	T D T A L
	48.0	480 1.8	!	!	-	1.9	777	1.9	-	!	1404	5.6
BASIS FOR COST ESTIMATE:	2	•			•	•	•	•			) •	
KITS Data	480	480 1.7			<b>4</b> 80	480 1.9 444 1.9	777	1.9			1404	5 .5
TOOL ING	1	1.		     					, ,	1	!	7.
TOTAL	480				480	480 1.9 444 1.9	777	1.9			1404	5.6
DIAING BUILDING TO THE TOTAL CHOILE THORUS TO COLUMN		7 FA 1 1	<u>.</u>	TMI	700	TATE						

METHOD OF IMPLEMENTATION: INSTALLATION - CRG/INTERMEDIATE LEAD TIME - 9 MCNTHS MIDIFICATION OF AIRCPAFT FY-R2 FROGRAM

FY-02 APPRIORIATIONS AIRCKAFT PROCUREMENT, AIR FORCE

4001FICATIO+ TITLE AND 40: TORSINE ENGINE MONITOFING SYSTEM, MN-10346C

MODELS OF AIRCRAFT AFFECTEUR A-10

DESCAIPTION/JOSTIFICATION: THE A-10 4AS DIRECTED TO STUDY THE FEASIPILITY OF INCORPORATING A TURALLY SAGINE MOULD INCLUDE TURALLY ENGINE MOULD INCLUDE TORALLY ENGINE MOULD INCLUDE INCREASED AVAILABILITY AND MAINTEMANCE EFFICIENCY, INCREASED DATA HANDLING EFFICIENCY, REDUCED LUGGISTICS SUPERMY COST, AND IMPROVED ENGINE MANAGEMENT. THE T-38 ENGINE HEALTH MONITORING SYSTEM HAS MEN MODIFIED FOR TEST USAGE.

-	- A	QTY COST	• • • • • • •	144.2		1.0	120.7	r.	10.0	10.0	2.0		144.2
-	_	<b>91</b>		618			618						618
2	1 TE AX	QTY COST		568 128.4			568 113.4		7.5	7.5		•	56 15.8 568 128.4
Ċ	2	QIY	!	568			568						568
6	2	QTY COST	1 1 1	50 15.8		1.0	7.3	.5	2.5	2.5	2.0		15.8
	_	ΩTΥ	•	S S			5(						ن ک
	E	OTY CEST O											
) U	-	⊅T¢	!										
	Tr • L L	TY CUST	•										
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*() *() *					GF C151	* 7 I Y Y				Ello.			
SCHEE OF CASSAS					FAS15 F	* NEW SCIENCE OF A STANK	KITS	DATA	TFAINE F	SUPP. 1	TOBLING		TUTAL

- 12 MONTHS METHOL OF IMPLEMENTATION: INSTALLATION - DEPOT LEAD TIME

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OF AIRCRAFT FY-82 PROGRAM MODIFICATION

FY-82 APPRUPRIATION: AIRCRAFT PROCURFMENT, AIR FORCE

BOARDING LADGER IMPROVEMENT, MN-30102A MODIFICATION TITLE AND NO:

MCDELS OF AIRCRAFT AFFECTED: A-10

IPTION/JUSTIFICATION: DURING NCRMAL GPERATION OF THE AIRCRAFT BOARDING LADDER, IT IS ACTIVATED AND FALLS TO ITS OPERATING POSITION. THE FALLING SHOCK AND ALSO NORMAL USE IS CAUSING CRACKS AND SUBSEQUENT BREAKING OF THE LOWER STEP. THE CONTRACTOR HAS PROPOSED TO DEVELCP HIGHER STRENGTH FORGINGS WHICH WILL REINFCRCE THE RCOT AREA OF THE STEP. RETROFIT IS REQUIRED TO ELIMINATE THE POSSIBILITY OF INJURY OF PERSONNEL STEPPING ON A CRACKED RUNG. DESCRIPTION/JUSTIFICATION:

TOTAL	QTY COST	524 2.1		1.	524 1.9	•	524 2.1
JUTYEAR	QTY COST						
Y-83 (	COST						524 2.1
				<u>ب</u> ـ	6	~	
F Y-82	QTY CCST	524 2.1		•	524 1.9	•	524 2.1
					3		5.
F 4	QTY COST						i   
PRIOR	QTY CCST						
g. Gr	417						1
SCCPE OF PROGRAM:			BASIS FOR COST ESTIMATE:	NONRECURRING	KITS	4	FOTAL

METHOD OF IMPLEMENTATION: INSTALLATICA - CRG/INTERMEDIATE LEAD TIME - 12 MONTHS

AIRCRAFT MODIFICATION OF AIR FY-82 PROGRAM

MODIFICATION TITLE AND NO: IMPRCVED IR SENSCR, AAD-5, MN-2871

FY-32 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

RF-4 MODELS OF AIRCRAFT AFFECTED: IPTION/JUSTIFICATION: THIS MEDIFICATION PROCURES ADDITIONAL AAD-5 INFRARED SENSORS. THE AIRCRAFT WIRING INSTALLATION WAS PREVIOUSLY ACCOMPLISHED ON ALL RF-4C AIRCRAFT. THE SENSORS WERE PROCURED FOR ONLY 50% OF THE INVENTORY. THIS PROCUREMENT PROVICES ENOUGH ADDITIONAL SENSORS FCR ALL OPERATIONAL ACTIVE AIRCRAFT. DESCRIPTION/JUSTIFICATION:

	QTY COST	49.9		6.64	6.64
101	710	103	; ;	103	103
YEAR	COST	24.2	! !	24.2	24.2
OUT	QTY	48		4.8	48
-83	QTY CCST QTY CCST QTY COST	16.0		21 9.7 34 16.0 48 24.2	21 9.7 34 16.0 48 24.2
7	Q17	34	<b>.</b>	34	34
-82	CCST	7.6		4.6	4.7
		21	i I	21	21
-81	QTY CCST				
FY	Q T Y			1	
40I	QTY COST	 			
a.	QTY			1	
SC CPE OF PROGRAM:			BASIS FOR COST ESTIMATE:	KITS	TOTAL
×			à	¥	1

METHOD OF IMPLEMENTATION: INSTALLATICA - CRG/INTERMEDIATE LEAD TIME - 18 MONTHS

# MODIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: VINSCN TAC SECURE VOICE, MN-3025

MODELS OF AIRCRAFT AFFECTED: F/RF-4

DESCRIPTION/JUSTIFICATION: VINSCN SECURE VCICE PROVIDES ON-LINE ENCRYPTION/DECRYPTION OF VHF/UHF AM/FM HALF-DUPLEX RADIC FOR ALL CLASSIFICATION OF TRAFFIC. THE TSEC/KY-58 IS DESIGNED FOR OPERATION IN AIRCRAFT INSTRUMENT PANELS OR RADIC-CONSOLE CONTROL PANELS, OR IT MAY BE LOCATED IN EQUIPMENT BAYS AND OPERATION BY A REMOTE CONTROL UNIT (RCU).

SCCPE OF PROGRAM:	ď	40 t	Y.	X	Ţ.	-8.2	Ė	84	Ţ	YEAR	-	-
	QT Y	QTY COST	710	QTY COST	Q17	QTY CCST	Y	GTY CCST QTY COST	Q17	COST	qτγ	qry cost
BASIS FOR COST ESTIMATE:					417	7.1	420	420 3.2	885	8 0	1722	18.3
NONRECURRING KITS DATA TRAINER					412	1.3 2.9 2.9	420	2.7	885	5 1.3 412 2.9 420 2.7 885 8.0 2.9 .5	5111	1.3 13.6 2.9
TOTAL	;				417	7.1	420	417 7.1 420 3.2 885 8.0	885	8.0	1722	18.3

METHOD OF IMPLEMENTATION: INSTALLATION - DEPCT/FIELD TEAM LEAD TIME - 16 MONTHS

97

MODIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

ALR-69 RWR UPDATE (COMPASS TIE), MN-3052 MODIFICATION TITLE AND NO:

MODELS OF AIRCRAFT AFFECTED: F-4E

UPGRADES THE ALR-46 RADAR WARNING RECEIVER (RWR) TO PROVIDE AN IMPROV-DESCRIPTION/JUSTIFICATION: ED CAPABILITY TO DETECT

SC GPE OF PROGRAM:	PRIOR	7	18-	j. U.	282	÷.	683	DUT	YEAR	101	۸
	QTY CCST	QTY	QTY COST Q	QTY	QTY COST QTY COST	VIO	COST	QTY	QTY COST	QTY	QTY COST
			-	1	1		1	!			
		13	10.5	90	25.5	130	37.1	279	73.0	512	146.1
BASIS FOR COST ESTIMATE:											
CNICACIONANCA			1.0								1.0
K ITS		13	3.7	06	90 20.1 130 31.1 279 73.0	130	31.1	279	73.0	515	127.9
DATA			1.0								1.0
SUPPORT EQUIP.			4.8		5.4		0.9				16.2
		-		-				1111		-	
TOTAL		13	13 10.5 90 25.5 130 37.1 279 73.0	90	25.5	1 30	37.1	516	73.0	215	1.941
METHOD OF IMPLEMENTATION:	INSTALLATION - DEPOT LEAD TIME - 29 MONTHS	0.N - 0	EPOT 9 MONT	HS							

MCDIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FCRCE

MODIFICATION TITLE AND NO: PARKHILL TAC SECURE VOICE, MN-3063

MODELS OF AIRCRAFT AFFECTED: RF-4

DESCRIPTION/JUSTIFICATION: PARKHILL SECURE VCICE PROVIDES ON-LINE ENCRYPTION/DECRYPTION OF HF NARROW BAND FREQUENCY RANGES UP TO THE SECRET LEVEL. THE TSEC/KY-75 IS DESIGNED FOR OPERATION IN ALL AIRCRAFT APPLICATIONS.

SCCPE OF PROGRAM:	PR	PRIOR QTY COST	6.7.4.	FY-81 QTY COST	F.Y-	FY-82 QTY COST	FY QTY	FY-83 QTY COST Q	OUT QTY	OUTYEAR QTY COST	0 1	T O T A L QTY COST
BASIS FOR COST ESTIMATE:					72	4.7	64	64 1.3 204 4.7	204	4.7	340	10.7
					71	1 2.0 71 1.4 1.2	64	64 1.3 204 4.7	204	4.7	339	2.0 7.4 1.2
	! ! !		t i 1	1 1 1 1	72	72 4.7 64 1.3 204 4.7	64	1.3	204	4.7	340	10.7

METHOD OF IMPLEMENTATION: INSTALLATION - DEPCT LEAD TIME - 16 MONTHS MODIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FORCE

MODIFICATION TITLE AND NC: GBU-15

F-4E MODFLS OF AIRCRAFT AFFECTED: IPTION/JUSTIFICATION: PROVIDES CAPABILITY FOR GBU-15 CARRIAGE. GBU-15 GIVES THE F-4 AN ENHANCED STANDOFF CAPABILITY AGAINST SEVERAL TYPES OF TARGETS. INSTALLATION PROVISIONS WERE PROVIDED UNDER A PREVIOUS MODIFICATION (CIGITAL AVICNICS). THIS PROGRAM PROVIDES THE ADDED FOULPMENT (RADAR CONTROL HANDLE AND PYLON DATA LINK PROVISIONS) NEEDED TO UTILIZE THE WEAPON. DESCRIPTION/JUSTIFICATION:

SCOPE OF PRUGRAM:

T O T A L QTY COST	173 7.5	173 6.2	173 7.5
OUTYEAR QTY COST			1 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
FY-83 C			# # # # # # # # # # # # # # # # # # #
FY-82 QTY COST	173 7.5	173 6.2 1.0	173 7.5
FY-81 QTY COST			*
PRICR FY-81 QTY COST QTY COST			, ; ; ; ; ; ; ; ; ;
	BASIS FOR COST ESTIMATE:	KITS DATA SUPPORT EQUIP.	TOTAL

INSTALLATION - CRG/INTERMEDIATE
LEAD TIME - 9 MONTHS METHOD OF IMPL, JENTATION:

9 MONTHS

MODIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NG: CENTERLINE SPLICE, MN-10509A

MCDELS OF AIRCRAFT AFFECTED: F-4

DESCRIPTION/JUSTIFICATION: REPLACEMENT CF CENTERLINE SPLICE WITH A NEW FAIL-SAFE SPLICE PLATE IS REQUIRED TO FLIMINATE STRESS CORROSION CRACKING IN PRESENT SPLICE PLATE AND PREVENT LOSS OF AIRCRAFT.

A L COST 70.2		1.0	70.2
T D T A L QTY COST 1085 70-2		1084	1085
OUTYEAR QTY COST 		176 8.4 327 19.2 581 37.2 .2 4.2	37.2
00T 0TY  581		581	581
FY-82 FY-83 QTY COST QTY COST  177 13.8 327 19.2		19.2	177 13.8 327 15.2 581 37.2
FY- 0TY 		327	327
FY-82 QTY COST  177 13.8		1. C 8 . 4	13.8
FY- QTY  177		176	171
FY-81 QTY COST			177 13.8 327
PRIOR QTY COST			
PR			}     
SCCPE OF PROGRAM:	BASIS FOR COST ESTIMATE:	NONRECURRING KITS DATA	TOTAL

METHOD OF IMPLEMENTATION: INSTALLATION - DEPCT LEAD TIME - 24 MONTHS

FY-82 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FORCE

MODIFICATION TITLE AND NG: REWCRK DUTER WING, MN-10510A

MODELS OF AIRCRAFT AFFECTED: F-4

DESCRIPTION/JUSTIFICATION: REWCRK THE OUTER WING TO BEEF-UP AREAS WHERE FATIGUE CRACKS HAVE OCCURRED. REPLACE OUTER WING SKIN AND STRUCTURAL CGMPONENTS CA F-4C, D AND RF-4C UNSLATTED AIRCRAFT. THIS IS TO PREVENT LCSS OF CUTER WING FROM FATIGUE FAILURE OF OUTER WING COMPONENTS.

	TOTAL	CTY COST	100%	1017	1 .6	1093 20.0	• 1	<b>7.</b>	111111	1094 21.1
			11 3			11.3				
						578				578
	-83	OTY CCST		7.0		2.5 339 6.2 578 11.3				6.2
	Ŧ	QTY	130	666		339				339
	-82	COST		0	•		-	4.		177 3.6 339 6.2 578 11.3
	Ŧ	QIY	17.		-	176			1111	177
	FY-81	COST	!							
									1	
	LOR	QTY COST	1							
	ď	Q1 Y	[   						•	
SCCPE OF PROGRAM:				BASIS FOR COST ESTIMATE:	NON RECURE ING	KITS	DATA	TOCLING		TOTAL

METHOD OF IMPLEMENTATION: INSTALLATION - DEPCT LEAD TIME - 18 MONTHS

FY-82 APPRUPRIATION: AIRCRAFT PROCUREMENT, AIR FURCE

MODIFICATION TITLE AND NO: GAS ACTUATED RCCKET MCTCR, MN-19212A

MODELS OF AIRCRAFT AFFECTED: F-4

ATTACHED TO COCKPIT FLOOR AND RECKET METER FIRING MECHANISM. THIS HAS RESULTED IN NUMEROUS MAINTENANCE ACCIDENTS DUE TO LANYARD ENTANCLEMENT OR SNAGGING CURING SEAT REMOVAL. IN ADDITION, ENTANCLEMENT COULD CCCUR DURING SEAT REMOVAL. IN ADDITION, ENTANCLEMENT COULD CCCUR DURING SEAT INSTALLATION HAMPERING EJECTION SEQUENCE EVENTS. BASED ON THE ABEVE, A SAFER AND MORE POSITIVE METHOD FOR FIRING THE ROCKET MOTOR IS NFEDED. WITH INSTALLATION OF A GAS ACTUATED ROCKET MOTCR, THE PRESENT FIRING LANYARD WCULD BE REMOVED, ELIMINATING THE PCTENTIAL FCR ENTANGLEMENT AND EJECTION SEQUENCING PROBLEMS. DESCRIPTION/JUSTIFICATION:

T D T A L QTY COST 1654 10•2		9.9	10.2
T D QTV		1654	1654
OUTYEAR QTY COST			
		474 2.3 1180 7.6 .2 .1	474 2.6 1180 7.6
PRIGR FY-81 FY-82 FY-83 QTY COST QTY CCST QTY CCST		474 2.3	474 2.6 1180 7.6
FY-81 QTY COST			 
PRICR QTY COST			
SCCPE OF PROGRAM:	BASIS FOR COST ESTIMATE:	K ITS DATA	I KA I NEK TOTAL

METHOD OF IMPLEMENTATION: INSTALLATION - CRG/INTERMEDIATE LEAD TIME - 13 MONTHS

MCDIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FORCE

MUDIFICATION TITLE AND NC: INERTIAL NAVIGATION SYSTEM, MN-195018

MODELS OF AIRCRAFT AFFECTED: F-4G

DESCRIPTION/JUSTIFICATION: THE CPERATICNAL FEADINESS OF THE F-4G IS DEGRADEC BY LOW RELIABILITY OF THE PRESENT INFRIAL NAVIGATION ATTACK SYSTEM. REPLACEMENT OF THE INERTIAL NAVIGATION AND WEAPON DELIVERY SYSTEM WILL ENHANCE (PERATIONAL CAPABILITIES THROUGH INCREASED RELIABILITY AND MAINTANABILITY RESULTING IN INCREASED WEAPON SYSTEM AVAILABILITY.

977 COST		70.6	5.2	105.8
1 0 T		101		102
YEAR COST 		55.8	5.2	61.0
0UT 0TY 77		11		11
-83 CCST 14.5		23 14.5 77 55.8		11.2 23 14.5 77 61.0
F Y.		23		23
FY-82 FY-83 OUTYEAR QTY COST QTY CCST QTY COST 23 14.5 77 61.0			11.2	11.2 23 14.5 77 61.0
F Y.				
31 CCST		1 14.6	4.2	2 19.1
F Y-1		7 7		7
PRIOR QTY CCST				2 19.1
PR				!
SC CPE OF PROGRAM:	BASIS FOR COST ESTIMATE:	NONRECURR ING K ITS	DATA TRAINER	TOTAL

METHOD OF IMPLEMENTATION: INSTALLATION - DEPCT LEAD TIME - 16 MONTHS

FY-82 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: LOW ALTITUDE WARNING SYSTEM, MN-50045A

MODELS OF AIRCRAFT AFFECTED: F-4

DESCRIPTION/JUSTIFICATION: THIS MCDIFICATION PROVICES A VOICE SYNTHESIZER INTERFACED WITH THE EXISTING RADAR ALTIMETER AND INTERCOMMUNICATIONS SUBSYSTEM, WHICH WILL WARN OF FLIGHT WHICH IS DANGEROUSLY CLOSE TO THE GROUND. SAFETY CENTER STUDIES SHOW THAT TWC TO FOUR F/RF-4 AIRCRAFT CAN BE SAVED YEARLY BY INSTALLATION OF THIS SYSTEM.

SC CPE OF PROGRAM:												
	PRIOR		FY-81	81	¥	FY-82	Ĭ.	FY-83	OUTYEAR	rEAR	0	TAL
	QTY COST QTY COST	) IS	ΣŢ	COST		CTY COST	QTY	QTY COST QTY COST	QTY	COST	QTY	QTY COST
			1	1 1	1	1111	1	1	1	1		
					1655 4.3	4.3					1655	4.3
BASIS FOR COST ESTIMATE:												
					7	4.					-4	*
KITS					1654	3.6					1654	3.6
DATA						€,						e.
SUPPORT EQUIP.						*						*
		;	-		1 1		1 1			******	-	
TOTAL					1655	1655 4.3					1655	4-3
METHOD OF IMPLEMENTATION: INSTALLATION - CRG/INTERMEDIATE	INSTALLA	TION	ı E	G/INT	ERMED	IATE						

105

8 MONTHS

LEAD TIME

FY-82 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: REPLACE FIRF/OVERHEAT ELEMENTS, MN-59147A

MODELS UF AIRCRAFT AFFECTED: F/RF-4

DESCRIPTION/JUSTIFICATION: REPLACES THE PRESENT FENWAL ENGINE BAY FIRE/OVERHEAT ELECTRICAL SENSING ELEMENTS WITH SYSTRON-DONNER PNEUMATIC TYPE SENSING ELEMENTS. PRESENT CONTROL AND AIRCRAFT WIRING TO ENGINE BAY WILL BE UTILIZEC. PRESENT SYSTEM GIVES A HIGH RATE OF FALSE FIRE/OVERHEAT INDICATION.

SC CPE OF PROGRAM:

SCICNE OF PROGRAM:												
	PR	PRIOR	FY-81	-81	F.	FY-82		-83	OUT	YEAR	0 1	TAL
	QTY	QTY CCST		QTY COST	QTY	QTY COST		QTY CCST QTY COST	Q14	COST	Q17	QTY COST
	1	1		1	1	! ! ! !	1	1		1	1 1 1 1 1	1 1 1
	800	7.1			096	6.7 038					1760	15.0
BASIS FOR COST ESTIMATE:												
NONRECURRING		*										#
KITS	800	7. C			096	6.7 096					1760	14.9
DATA		*										*
TRAINER		7										• 1
	1 1 1				. !!!!					1 1 1 1		
TOTAL	800	7.1			096	6.7 096					1760	15.0
METHOD OF IMPLEMENTATION:	INSTA	INSTALLATION - CRG/INTERMEDIATE	i z	RG/INT	ERMED	IATE						

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9 MCNTHS

LEAD TIME -

FY-82 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: REDESIGN DORSAL LCNGERON, MN-29153A

MODELS OF AIRCRAFT AFFECTED: F-5E/F AIRCRAFT

IDENTIFIED THE DORSAL LONGERON SAFE SERVICE LIFE TO BE 1400 HOURS IN THE DISSIMILAR AIR COMBAT TRAINING (DACT) ROLE AND CCNFIRMED THAT PRESENT LONGERON DESIGN PRECLUDES DEVELOPMENT OF ADEQUATE INSPECTION TECHNIQUES TO ASSURE SAFE STRUCTURAL STATUS. THIS MODIFICATION REPLACES THE EXISTING EXTRUDED LONGERON WITH A SIMPLE MACHINED ANGLE AND FORMED PLATE CONFIGURATION. THIS CONFIGURATION WILL PROVIDE A SAFE SERVICE LIFE, REDUCE LEAD TIME OF HARDWARE, AND CAN BE FULLY INSPECTED WITHOUT DISASSEMBLY WITH CURRENT NDI PROCEDURES. DESCRIPTION/JUSTIFICATION: THE RECENTLY COMPLETED CAMAGE TOLERANCE ANALYSIS FOR THE F-5E/F

SC CPE OF PROGRAM:												
	A d	I CR	, L	-81	ξΫ́	-82	Ţ	-83	OUT	YEAR	_ O _	_ A (
	QTY	QTY CCST	VTQ	TO TEST OF	CIY	COST	CTY	TY CCST GTY CGST GTY CCST GTY COST	CIY	COST	<b>V10</b>	QTY COST
	1	-	1	1	† •	1	1	1	t 1	1 + 1	]	1
			'n	1.9	33	2.0	36	2.4	28	2.3	102	8.3
BASIS FOR COST ESTIMATE:												
NONREC URR ING			-	I • 4								1.4
KITS			4	• 2	33	2.0	36	4 .2 33 2.0 36 2.4 28 2.0	28	2.0	101	9.9
DATA				63								•3
	1 ( )	-	-			!!!!		( ) = = = = = = = = = = = = = = = = = =		( )	!	1
TOTAL			ĸ	1.9	33	2. C	36	5 1.9 33 2.0 36 2.4 28 2.0	28	2.0	102	8 • 3

METHOD OF IMPLEMENTATION: INSTALLATION - DEPCT LEAD TIME - 16 MONTHS

107

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FY-82 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FORCE

MODIFICATION TITLE AND NC: ALR-56 RWR UPCATE, MN-3010

MODELS OF AIRCRAFT AFFECTED: F-15

DESCRIPTION/JUSTIFICATION: THE CURRENT ALR-56 WAS DESIGNED TO THE RADAR THREAT ENVIRONMENT AS IT EXISTED AT THE TIME THE HARDWARE WAS DESIGNED. THE TREMENDOUS THREAT PROLIFERATION EXPERIENCED SINCE THEN HAS CAUSED THE EQUIPMENT TO BECOME CPERATIONALLY DEFICIENT. THIS WILL UPDATE THE ALR-56 RADAR WARNING RECEIVER TO THE CURRENT THREAT.

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/FIELD TEAM LEAD TIME - 15 MCNTHS

FY-82 APPROPRIATION: AIRCRAFT PRCCURFMENT, AIR FCRCE

MCDIFICATION TITLE AND NO: UHF/VHF RADICS/TACAN, MN-61U001

MODELS OF AIRCRAFT AFFECTED: F-15

SECURE VOICE EQUIPMENT ARE BEING INSTALLED ON THE PRODUCTION LINE FOR THE F-15C/O AIRCRAFT.

THIS MUDIFICATION IS REQUIRED TO STANDARDIZE THE F-15 AIRCRAFT. THE F-15 INTEGRATED
COMMUNICATIONS CONTROL PANEL (ICCP) MAKES ACCOMPLISHING ALL COMMUNICATION MODIFICATIONS AT ONE DESCRIPTION/JUSTIFICATION: UPDATED UFF/VHF/TACAN CCMMUNICATIONS EQUIPMENT AND VINSON TACTICAL TIME MANDATORY.

7 4	COST	45.8		5.6	47.1		4.6.8
101	QTY COST	619			619		619
YFAR	017 COST	8.4			4.8		4.4
011	¥ 10	601			601		109
- 83	GTY COST QTY CCST	16.7			16.7		16.7
7. *	710	212			212	1 1	212
-82	COST	15.0		•	14.4		15. C
ř.	<b>CTY</b>	195			195	1 1 1	195
30 11	CCST	5.7		2.0	1C3 7.6 195 14.4 212 16.7 109 8.4		103 5.7 195 15.0 212 16.7 109 8.4
ř		103			1 C3	1111	103
PRICR	OTY CCST						
9	710					!!!!!	
SCOPE OF PROGRAM:			BASIS FOR COST ESTIMATE:	NCNR ECURR ING	K ITS TPAI VER		TOTAL

METHOD OF IMPLEMENTATION: INSTALLATION - DEPCT LEAD TIME - 21 MONTHS

FY-82 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FOKCE

UPDATE MODIFICATIONS MODIFICATION TITLE AND NO:

MODELS OF AIRCRAFT AFFECTED: F/IF-15

DESCRIPTION/JUSTIFICATION: AIRCRAFT REQUIRE LPCATES TO CORRECT DEFICIENCIES REVEALED DURING
DEVELOPMENT AND INITIAL OPERATIONAL USE. CORRECTIONS ARE INCORPORATEC IN PRODUCTION AT THE
EARLIEST TIME. UPDATE MODS ARE REQUIRED TO MAINTAIN CONFIGURATION CONTRAL OF DELIVERED
AIRCRAFT AND THOSE TOO FAR INIC PRODUCTION FOR INCORPORATION. THE REQUIREMENTS LISTED ARE
KNAWN PROBLEMS AND ARE REPRESENTATIVE OF THE TOTAL MODIFICATION ANTICIPATED.

SCOPE OF PROGRAM:

BASIS FOR COST ESTIMATE:	97.Y	PRIOR OTY CCST	F Y-	FY-81 1 QTY COST QTY 2 62.0	F Y-	FY-82 QTY CCST	FY-	FY-83 0TY COST (	OUTVEAR QTY COST	/EAR COST  62.2	017	T O T A L OTY COST	
ОТНЕЯ	- !	177.2		62.0		26.3		58.6		62.2		386.3	
TOTA1.	. •	177.2		62.C		26.3		58.6	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	62.2		386.3	

# F-15 REPRESENTATIVE UPDATE MODIFICATIONS

HOURS BASED ON CY1979 SUPPORT REQUIREMENTS AND PROJECTED FLIGHT HOURS. THE DISTRESS MODE IS CARBON CRACKING AND SUBSEQUENT MATERIAL DETERIORATION. THIS MODIFICATION PROVIDES FOR INCORPORATION OF A PREVIOUSLY DESIGNED METALLIC BALL BEARING. ENGINES MUST BE INSPECTED AT OR BEFORE 500 HOUR INTERVALS TO PREVENT BEARING FAILURE AND SUBSEQUENT NOZZLE MECHANISM DAMAGE. THE MEAN-TIME-BETWEEN-REMOVALS OF THIS PART IS 150 BEARING LIFE HAS BEEN ESTABLISHED AT APPROXIMATELY 500 HOURS. AS A RESULT, ALL SERVICE

PATTERN AND THEREBY REDUCED PATTERN FACTOR. HIGH PATTERN FACTORS ARE CAUSED BY POOR FUEL/ FUEL NOZZLE IMPROVEMENTS THIS MODIFICATION PROVIDES FOR A FUEL NOZZLE WITH A REVISED TIP TO IMPROVE THE FUEL SPRAY AIR DISTRIBUTION, AND RESULTS IN BURNING/CRACKING OF TURBINE VANES.

# IMPROVED EXHAUST NOZZLE CONTROL ROTOR BEARING

THE AIR ROTOR BEARINGS CAN WEAR EXCESSIVELY AND ALLOW THE ROTORS TO SHIFT AXIALLY ENOUGH TO RUB ON THE BEARING HOUSINGS, IMPAIRING NOZZLE MOVEMENT, CAUSING AUGMENTOR ANOMALIES AND ENGINE STAGNATIONS. THIS MODIFICATION IS DESIGNED TO IMPROVE THE DURABILITY OF THE ROTOR BEARINGS AND RESULT IN IMPROVEMENTS IN ENGINE RELIABILITY.

### IMPROVED COMPRESSOR INLET VARI-VANE

SEVERE WEAR BETWEEN THE FLAP VANE ARM AND THE RING POCKET CAUSES THE VANE ARM TO BECOME DISENGAGED, REQUIRING REMOVAL OF THE ENGINE TO REPLACE THE 1st STAGE BLADES. THE NEW RING INCORPORATES UNIBALL BEARING BETWEEN VANE ARM AND RING THUS ELIMINATING THE POCKET

### IMPROVED MAIN FUEL PUMP LIFE

IDENTIFIED. MAIN FUEL PUMPS RETURNED FOR OVERHAUL HAVE DISPLAYED EXCESSIVE WEAR IN THE FOLLOWING AREAS: (1) SPEED SENSOR DRIVE GEAR BUSHINGS; (2) CAM RING TO FRAME INTERFACE; (3) WASH FILTER/WASH FILTER RETAINER; (4) MAIN DRIVE SHAFT/ROTOR SHAFT SPLINE INTERFACE; (5) CAM FOLLOWERS. CORRECTIVE ACTIONS ARE BEING DEVELOPED UNDER THE F100 ENGINE COMPONENT TWO MAIN FUEL PUMP VANE STAGE FAILURES ATTRIBUTED TO INGESTION OF FOREIGN OBJECTS HAVE BEEN IMPROVEMENT PROGRAM

#### MISSILE LAUNCHER UPDATE

ING REPLACEMENT OF SEVERAL ACCESSORY COMPONENTS AND REPLACEMENT OF THE FORWARD FRAME SUPPORT WAS REDESIGNED; HOWEVER, THE FAILURE POINT HAS PROPAGATED THROUGH THF STRUCTURE THUS REQUIR-AN ELONGATED NOSE NEEDED TO HOUSE THE AIM-9J ELECTRICAL ADAPTER PLUG. THE NOSE COVER HINGE INTEGRATION OF THE AIM-9L MISSILE INTO THE F-15 WEAPONS INVENTORY NECESSITATED DEVELOPMENT OF A NEW RAIL LAUNCHER WHICH WOULD PROVIDE FOR AIM-9J AND L MISSILE EMPLOYMENTS, REQUIRING (REDESIGN AND CHANGE IN MATERIAL).

MJDIFICATION OF AIFCRAFT FY-82 FROGRAM

FY-HZ APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

SEEK TALK MODIFICATION TITLE AND NOT

MODELS OF AIRCRAFT AFFECTED: F-16

DESCRIPTION/JUSTIFICATION:

SCOPE OF PROGRAM:								1		
	PRIUR 2TY COST	FY-81 21Y C2ST 21	FY-82 217 CES1	FY-83		0UT)	OUTYEAR OTY COST	0 T 0 T	T 0 T A L QTY COST	
		1 1 1 1				:	1 1 1	1 1 1 1 1		
					9.1		.03.4		112.5	
BASIS FOR COST ESTIMATE:										
					8.3				8.3	
MUNACCORAL NG							86.8		86.8	
TRA INFR							11.3		11.3	
DATA					α				Φ,	
SUPPORT EQUIP.							5,3		5.3	
		1 1 1 1 1 1 1						•	1 1 1 1	
TOTAL					9.1	•	103.4		112.5	
METHOD OF IMPLEMENTATION:	INSTALLATION - DEPUT	1V - DEPUT								

LEAD TIME - 12 MONTHS

112

FY-82 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: UPDATE MODIFICATIONS

MODELS OF AIRCRAFT AFFECTED: F-16

DESCRIPTION/JUSTIFICATION: AIRCRAFT RECUIRE MCDS TO CORRECT DEFICIENCIES REVEALED DURING
DEVELOPMENT AND INITIAL USE. CORRECTIONS ARE INCORPORATED IN PRODUCTION AT THE EARLIEST TIME.
SPDATE MCDS ARE REQUIRED TO MAINTAIN CONFIGURATION CONTROL OF DELIVERED AIRCRAFT AND THOSE TOO
FAR INTO PRODUCTION FOR INCORPORATION. REQUIREMENTS LISTED ARE KNOWN PROBLEMS AND ARE
REPRESENTATIVE OF THE TOTAL MODIFICATIONS ANTICIPATED.

COST 415.2		415.2	415.2
T O T A L QTY COST 415.2		1	
OUTYEAR QTY COST		210.0	210.0
FY-83 QTY CCST (		0.09	
FY-82 QTY COST 60.0		0.09	
FY-81 TY CCST		40.0	
PRIOR QTY COST Q			45.2
SCCPE OF PROGRAM:	BASIS FOR COST ESTIMATE:	OTHER	TOTAL

### F-16 REPRESENTATIVE UPDATE MODIFICATIONS

#### DEPARTURE WARNING SYSTEM

FLIGHT CONDITIONS AIRCRAFT WHICH COULD RESULT IN THE AIRCRAFT DEPARTING CONTROLLED FLIGHT AND POSSIBLE SPIN OR INSTALL AN AURAL TONE WARNING SYSTEM TO ALERT THE PILOT WHEN HE IS ENTERING

### ENGINE RELATED MUDIFICATIONS

A SUBSTANTIAL NUMBER OF CHANGES TO THE ENGINE WILL BE ACCOMPLISHED TO REDUCE SUSCEPTABILITY TO STALL/STAGNATION, IMPROVE RELIABILITY AND REDUCE FAILURES.

#### PRECHECK REFUEL VALVES

INCORPORATE A PRECHECK REFUEL VALVE IN THE FUEL SYSTEM TO MINIMIZE RISK OF FUEL SPILLS. WILL ALLOW SAFE REFUELING DURING QUICK TURNAROUND OPERATIONS WITH THE ENGINE RUNNING.

### PILOT LIMB RESTRAINT SYSTEM

ADD AN ARM AND LEG RESTRAINT SYSTEM TO THE EJECTION SEAT WHICH WOULD BE ACTIVATED AUTOMATICALLY CHANGE WILL REDUCE FLAILING INJURIES DURING HIGH SPEED EJECTION. DURING AN EJECTION.

# NUCLEAR BIOLOGICAL CHEMICAL (NBC) PROTECTIVE SYSTEM

MODIFY OXYGEN REGULATOR, COCKPIT CIRCUITRY, AIRCRAFT WIRING AND STRUCTURE TO PROVIDE NBC PROVISIONS IN THE LIFE SUPPORT SYSTEM.

# ON-BOARD OXYGEN GENERATING SYSTEM (OBOGS)

REPLACE THE PRESENT LIQUID OXYGEN (LOX) SYSTEM WITH AN OBOGS TO DECREASE LIFE CYCLE COSTS BY ELIMINATING THE REQUIREMENT FOR LOX SUPPLIES AND SUPPORT EQUIPMENT AND TO INCREASE OPERATIONAL READINESS BY ELIMINATING THE TIME REQUIRED TO SERVICE THE LOX SYSTEM.

### BRAKE CONTROL SYSTEM REDESIGN

PARKING BRAKE VALVE AND ADDITION OF A COCKPIT SWITCH. CHANGE WILL REDUCE BRAKE FIRES, LOCKED MODIFY THE BRAKE CONTROL SYSTEM TO PROVIDE METERED BRAKING FOR TOWING, REPLACEMENT OF THE BRAKES AND PARKING BRAKE LIMITATIONS.

MCDIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-32 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FORCE

MODIFICATION TITLE AND NC: SECURE VOICE, MN-3070

MODELS OF AIRCRAFT AFFECTED: F-111A/D/E/F

DESCRIPTION/JUSTIFICATION: TO PROVIDE TACTICAL SECURE VCICE ENCRYPTICN CAPABILITY FOR HF AND UHF COMMUNICATIONS.

SCOPE OF PROGRAM:											
	PRIOR		-81	Ť	-82	FY	-83	OUT	YEAR		_ A L
	QTY CGST		QTY COST QTY COST G	QTY	COST	QTY	QTY COST	QTX	QTY COST	710	QTY COST
		1	1	1	1111	1	1	;	1 1 1 1	1 1 1 1 1	1 1 1
		7	1.5	06	2.1	86	86 2.8 141 4.5	141	4.5	319	11.5
BASIS FOR COST ESTIMATE:											
NOWRECURRING		7	2 1.4							2	1.4
KITS				90	90 2.6		86 2.6 141 4.5	141	4.5	317	7.6
DATA			• 1								٠.
TRAINER					7.		•2		*		۴.
		1	***** **** ***** **** **** **** ****	! ! !	1 1 1 1 1			1		1 1 5 1	
TOTAL		7	2 1.5 90 2.7 86 2.8 141 4.5	06	2.7	86	2.8	141	4.5	319	11.5

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT LEAD TIME - 12 MONTHS

MCDIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPRUPRIATION: AIRCRAFT PRECUREMENT, AIR FORCE

MUDIFICATION TITLE AND NC: SIGNAL DATA CCNVERTER (SCC), MN-103098

MODELS OF AIRCRAFT AFFECTED: F-111D

MICROELECTRONIC CIRCUITS (83 E4) AND METAL OXIDE SEMICONDUCTER FIELD EFFECT TRANSISTORS
(MOSFET) DEVICES (216 E4). MICROELECTRONIC CIRCUITS ARE DIFFICULT TO REPAIR AND REPAIR BY THE SOLE SOUNCE VENDOR IS COSTLY. THIS MODIFICATION WILL REMOVE ALL MICROELECTRONIC CIRCUITS AND MOSFET DEVICES. THE QUANTITY OF SRUS WILL BE REDUCED FROM 31 TO 6: PARTS COUNT FROM 4989 TO 481; AND INTERCONNECTS FROM 11160 TO 2160. MEAN TIME BETWEEN FAILURE WILL INCREASE FROM 176 DESCRIPTION/JUSTIFICATION: APQ-13C SOC FAILURES ARE PRIMARILY DLE TO USE OF CUSTOM BUILT TO 1108 HOURS.

SCCPE OF PROGRAM:	PRICR QIY COST	FY-81 1 Q1Y CCST Q1	-81 CCST	FY- 017	FY-82 QTY COST	FY.	FY-83 QTY CCST	00T 0TY	OUTYEAR QTY COST	T 0 T	T 0 T A L CTY COST
BASIS FOR COST ESTIMATE:					1 3.1			85	85 2.8	86	5.9
NCNRECURRING KITS DATA SUPPORT EQUIP.				1	1.5			85	85 2.8	85	1.5 2.8 .7
TOTAL	1		1 1 1	-	1 3.1	}	† 	85 2.8	85 2.8	86	5.9

METHOD OF IMPLEMENTATION: INSTALLATION - CONTRACTOR LEAD TIME - 29 MONTHS

MCDIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPRUPRIATION: AIRCRAFT PRCCUREMENT, AIR FORCE

MODIFICATION TITLE AND NC: RADAR RECEIVER IMPROVEMENT, MN-103108

MODELS OF AIRCRAFT AFFECTED: F-1110

DESCRIPTION/JUSTIFICATION: APQ-13C RADAR RECEIVER FAILURES ARE PRIMARILY DUE TO USE OF CUSTOM BUILT MICROELECTRONIC CIRCUITS. THEY ARE DIFFICULT TO REPAIR AND REPAIR BY THE SOLE SOURCE VENDOR IS COSTLY. THIS MODIFICATION WILL REMOVE ALL MICOFELECTRONIC CIRCUITS FROM THE RADAR RECEIVER. ONE SRU WILL BE MODIFIED TO ELIMINATE FAILURE MODES AND 9 SRUS (6 SRU TYPES) WILL BE REPLACED. MEAN TIME BETWEEN FAILURE WILL INCREASE FROM 75 TO 338 HOURS.

1 A L	CTY COST	1 1 1	5.1		1.1	2.8	9.	9.	1 + 1 + 1 + 1	5.1
0 1	CTY	1	86			85			1	86
YEAR	COST	1	2.8			85 2.8			1	85 2.8
100	410	1	85			85			5	85
-83	QTY CCST QTY COST									
7	QTY	! !							1	
-82	QTY COST	1	1 2.3		1.1		9.	9.		2.3
	V10				1				-	-
-81	QTY CCST									
FY	oty	-								
ICR	QTY COST	-								
9.	QTY	!							1	
SC CPE OF PROGRAM:				BASIS FOR COST ESTIMATE:	NONRECURR ING	KITS	DATA	SUPPORT EQUIP.		TOTAL

METHOD OF IMPLEMENTATION: INSTALLATION - CONTRACTOR
LEAD TIME - 27 MONTHS

MCDIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FORCE

MODIFICATION TITLE AND NG: REPLACE CONVERTER MULTIPLEXER, MN-163C8B

MODELS OF AIRCRAFT AFFECTED: FB/F-111 D/F

DESCRIPTION/JUSTIFICATION: THIS NEW CCNVERTEF MULTIPLEXER HAS BEEN CESIGNED WITH CURRENT
STATE—OF—THE—ART ELECTRONICS. A WIRE—WRAPPED MCTHER BOARD REPLACES THE OLD FLEXPRINT CABLE
AND HOUSING ASSEMBLY. HIGH DENSITY PACKAGING HAS REDUCED THE CARD COUNT FROM 60 TO 17 AND
PARTS FROM 7000 TO 3600. THE UNIT IS BUILT TO THE OPIGINAL CCNVERTER SPECIFICATION AND IS
COMPLETELY INTERCHANGEABLE WITH THE PRESENT CONVERTER. MEAN TIME BETWEEN FAILURE SHOULD IMPROVE FROM 28 HOURS TO 383 HCURS.

	JTAL	CTY COST		3 48.6			7 28.5	4.2	•5	8.7	48.6
	<u></u>	CTY		253		9	247				253
	YEAR	COST	1								
	001	710	1								
	-83	QIY CCST QIY COST	1111								
	Ε¥	QIY	1								
	FY-82	QTY CUST	1	63 11.6			8.0			3.6	11.6
							63				63
	-81		1	18.4		1.5	11.6	2 · C	• 2	2.c 3.l 3.6	18.4 63 11.6
				5.7			44				16
	PRIOR	QTY COST	!	93 16.6 57 18.4		5.2	8.9	2.2	٠,	2°C	93 18.6 97 18.4 63 11.6
	P.R	QIY	1	63		9	87				93
SCCPE OF PROGRAM:					BASIS FOR COST ESTIMATE:	NONRECURE ING	KITS	DATA	TRAINER	SUPPORT EQUIP.	TOTAL

METHOD OF IMPLEMENTATION: INSTALLATION - CRG/FIELU LEAD TIME - 12 MCNTHS

FY-82 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FCRCE

MODIFICATION TITLE AND NO: REDESIGN ELECTRONIC PROCESSOR UNIT (EPU), MN-18317C

MCDELS OF AIRCRAFT AFFECTED: F-111

TOTAL OF 7715 PIECE PARTS. REDESIGN WOULD REPLACE THE MICROCIRCUITS WITH OFF-THE-SHELF SOLID STATE DEVICES; REDUCE NUMBER OF CARCS TO 20; AND REDUCE TOTAL PARTS COUNT TO 1200. ALSO, A NEW BUILT-IN TEST CAPABILITY WILL BE INCORPCRATED TO PROVIDE IMPROVED FLIGHT LINE ISOLATION TO ALL APQ-130 LRU'S AND REDUCE REMOVAL RATE. DESCRIPTION/JUSTIFICATION: THE EPU CCNSISTS OF 32 CIRCUIT BOARDS CONTAINING 275 MICROCIRCUITS AND A

	. A L	QTY COST		15.7		ŗ	C • 7	8.9	1.5	3.0	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	15.7
	101	VIO		86		-	•	85			-	98
	YEAR	COST	1								1	
	OLT	Q1 Y	1									
	-83	QTY CCST QTY COST	1 1 1	85 9.9				85 8.9		1.0		6.6
	¥	ÇIX	-	85				85			!	2.0 85 9.9
	-82	QTY CEST Q1	1 1	2.0						2.0		2.0
	F.	QTY	1								1	
	-81	QTY CCST	1	1 3.8		, ,			1.5			1 3.8
	ΕY	Q 1.Y	1	~		-	•					7
	PRICR		!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!									
	a.	QTY	!									
SCOPE OF PROGRAM:					RASIS FUR COST ESTIMATE:			KITS	DATA	SUPPORT EQUIP.		TGTAL

INSTALLATION - CONTRACTOR/FIELD TEAM(S)
LEAD TIME - 35 MONTHS METHCO OF IMPLEMENTATION:

GF AIRCRAFT MCCI FICATION

FY-82 PROGRAM

INERTIAL REFERENCE UNIT, MN-28146B MODIFICATION TITLE AND NG:

FY-82 APPROPRIATION: AIRCRAFT PRECUREMENT, AIR FORCE

MODELS OF AIRCRAFT AFFECTED: FB-111A, F-111C, F-111F

INVESTIGATION TO DETERMINE ACTIONS REQUIRED TO IMPROVE SYSTEM RELIABILITY. FAILURE PRONE COMPONENTS IN THE GYRCSCCPE AND VELCCITY METER HAVE BEEN IDENTIFIED AS CAUSING APPROXIMATELY 60% OF TOTAL INSTRUMENT FAILURE. INSTRUMENTS CAUSE 52% OF TOTAL IRU REMOVALS. NUMEROUS TURN-ON/TURN-OFF CYCLES CAUSED BY CPERATIONAL REQUIREMENTS INDUCE PREMATURE GYRO FAILURE DUE TO LONG RUN-DOWN TIME OF THE GYRO FCICF. CURRENT MEAN TIME BETWEEN FAILURE (MIBF) IS 38 HRS. DESCRIPTION/JUSTIFICATION: INCREASING FAILUFE TREND IN THE INERTIAL INSTRUMENTS RESULTED IN AN PROJECTED MTRF IS 169 HRS.

	QTY COST	239 7.6			236 6.3	4.	1.	239 7.6
					N			}
TYEAR	QTY COST	•						
0	QIV	!						
183	OIY COST	!						1 1 1 1 1
		1						!
-82	CTY CCST	3.8			3.8			3.8
T.	∠13	143			143			143
	OTY CCST	96 3.8 143 3.8		8	2.5	4.	•1	96 3.8 143 3.8
, ,	₹10	96		m	63			95
N C	QTY CCST	! ! !						
9	QTY	İ						
SCOPE OF PROGRAM:			BASIS FOR COST ESTIMATE:	NONRECURRING	KITS	ATA	RAINER	TOTAL

INSTALLATION - DEPCT/FIELD TEAM 7 MCNIHS LEAD TIME :NOI METHOD OF IMPLEMEN

120

MJOIFICATION JF AIRCRAFT FY-82 PROGRAM

FY-82 APPRIPRIATION: AIRCRAFT PRICUREMENT, AIR FORCE

WEAPONS/NAVIGATION COMPUTER, MN-193C48 MODIFICATION TITLE AND NO:

MODELS OF AIRCRAFT AFFECTED: F9/F-1110/F

DESCRIPTION/JUSTIFICATION: THIS MODIFICATION WILL REPLACE THE EXISTING UNRELIABLE GENERAL PURPOSE COMPUTER WITH A NEW STATE OF THE ART COMPUTER TO INCREASE MEAN TIME BETWEEN FAILURE AND REDUCE LOGISTICS SUPPORT COST.

TOTAL	OIY COSI	238 47.4		235 32.1 2.6	9.0	238 47.4
	1502 110		ĸ.	20.4		
001	- !	146		146		146
-83	1503 608	89 23.3	R.	11.7	8.4	89 23.3 146 20.4
F 4	<u>- 1</u>	83		6 8		89
FY-62	1517					,
F	> ! - !					:
-81	1503 217	3 3.7	3 2.7	4	9.	3 3.7
FY	~ :	ھ	Μ			
PRIUR	217 6051					;
P. P.	<u>}</u> 1					!
SCUPE OF PROGRAM:		BASIS FOR COST ESTIMATE:	NRE CURR 146	T S T A	TRAINER SUPPORT EQUIP.	TOTAL

METHOD OF IMPLEMENTATION: INSTALLATION - ORG LEAD TIME - 14 MONTHS

FY-82 APPRINKIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: EXTENDED INLET CASE, MN-467958

MODELS OF AIRCRAFT AFFECTED: F-IIIF, TF-30, P100

DESCRIPTION/JUSTIFICATION: TWO INCH FORMARD MOVEMENT OF THE FAN INLET CASE REDUCES VANE RESONANCE AND ELIMINATES VANE AND CASE CRACKING. THE CURRENT CASE IS A SOURCE OF HIGH SUPPORT COST. AS CASES ASE THEY BECOME MORE SUSCEPTIBLE TO CRACKING.

SCOPE OF PROGRAM:	51190	Ľ.	<u>-</u> ۲	ŭ	(X	<b>T</b>	-63	TOU	YFAR	C	IAI
	TSCO YTE	. Y T.€	JYY COST QTY CEST	01Y	CC ST	. Y T 0	COST	01Y	COST	VT0	QTY COST
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	;	:	!	) 1 1	1 8	86 3.1 174 6.2	174	6.2	260	9.3
BASIS FOR COST ESTIMATE:											
KITS			!	1	1	86	86 3.1 174 6.2	174	6.2	260	9.3
10141		; ; ;				86	3.1	174	6.2	260	9.3

METHOD OF 14PLEMENTATION: INSTALLATION - DEPOT LEAD TIME - 12 MONTHS 3

FY-32 APPROPRIATION: AIRCRAFT PRECUREMENT, AIR FURCE

MODIFICATION TITLE AND NO: REDESIGN COMPRESSOR DISK/HUB, MN-48835A

MCDELS OF AIRCRAFT AFFECTED: F-1111TF-3C FNGINE)

SLOTS. SUBSEQUENT FODY CURRENT SAMPLING INSPECTION OF TWENTY-SEVEN DISKS IN THE REPAIR LINE REVEALED FIVE ADDITIONAL CRACKS. FAILURE OF THE BLADE RETAINING LUG WILL RELEASE A MINIMUM OF TWO COMPLETE FIRST STAGE FAN BLADES AND THE ENGINE CASE CANACT CONTAIN A FAILURE OF THIS MAGNITUDE. THIS REDESIGN WAS INITIATED TO PRECLUDE FURTHER FAILURES OF THIS NATURE. ELIMINATE STRESS LEVELS THAT CONTRIBUTE TO COMPONENT FAILURE. THE NEED FOR REDESIGN WAS IDENTIFIED WHEN SIX DISKS IN AIR FORCE IF-30 ENGINES DEVELOPED CRACKS IN THE BLADE RETAINING DESCRIPTION/JUSTIFICATION: MODIFICATION FROVIDES A REDESIGN OF THE FIRST STAGE COMPRESSOR DISK TO

SCOPE OF PROGRAM:	oz G	10.8 8.0	Ę.	æ	, i	-82	¥	œ •	0.1	YEAR	0	4
	CIY	GTY CCST GTY CCST GTY CCST	CIY	CEST	CI Y	CCST	CIY	CTY COST	V10	OIY COST	410	QTY COST
	1 3	(	1:		1 6	! .	1	1	1	1		
BASIS FOR CUST ESTIMATE:	ž Ž	2 •	311	C• 7	107	9 • 7					1140	•
KITS DATA	54.8	548 3.8 311 2.5 287 2.6	311	2.5	287	2.6					1146	8.4
TOTAL	548	548 3.8 311 2.5 287 2.6	311	2.5	287	2.6		 		!	1146	8.9

METHOD OF IMPLEMENTATION: INSTALL FICA - DEPCT LEAD TIME - 24 MONTHS

123

MOCIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: TACTICAL SUPPORT AIRCRAFT (EW), MN-3015

MODELS OF AIRCRAFT AFFECTED: EF-111A

DESCRIPTION/JUSTIFICATION: THIS MODIFICATION

ELECTRONIC COUNTER COUNTERMEASURE TRAINING OF AIR DEFENSE FORCES ON A WORLDWIDE BASIS IN PEACETIME.

SCOPE OF PROGRAM:											
	PRIOR	FY-81	FY-82	82	FY-83		01	rear	101	AL	
	QTY CCST	QTY CCST	ÇIX		QTY CCST		Q1 Y	QTY COST	ΩTΥ	QTY COST	
					1		!				
BASIS FOR COST ESTIMATE:	9 278.2 12 236.3 12 260.8	12 236.	3 12 2	8 • 09	6	6 188.6		2.0	45	979.2	
	41.6									41.6	
KITS	9 166.8	12 219	3 12 2	19.3	9 1	9 187.3			45	192.1	
DATA	40.8	14	14.0 6.3	6.3						61.1	
TRAINER	7.9									7.9	
SUPPORT EQUIP.	21.1	en .	3.0	22.6						46.7	
MID-BAND				12.6		11.6				24.2	
			í !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	1	1						
TOTAL	9 278.2	12 236.	9 278.2 12 236.3 12 260.8	60.8	6	9 198.9			45	974.2	
METHOD OF IMPLEMENTATION:	INSTALL AT LON - CONTRACTOR	N - CONTE	AC TOR								

METHUD OF IMPLEMENTATION: INSTALLATION - CONTRACTOR LEAD TIME - 12 MCNTHS

FY-82 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: COMMERCIAL WEATHER RADAR, MN-192018

MODELS OF AIRCRAFT AFFECTED: C-5A

DESCRIPTION/JUSTIFICATION: REMOVES THE PIL-SPEC C-5 MULTI-MCDE RADAR SYSTEM AND INSTALLS A COMMERCIAL TYPE WEATHER RADAR WITH CCMFCNENTS COMMON WITH THE C-141 RADAR. THE MULTI-MODE IS EXPERIENCING ABOUT 23 HOUR MEAN TIME BETWEEN FAILURE (MTBF) AND THE COMMERCIAL TYPE EQUIPMENT A MINIMUM OF 500 MTBF.

A L COST 	7	31.8	. 2. 1	40.1
T O T A L QTY COST		11		11
FY-81 FY-82 FY-83 GUTYEAR QTY COST QTY COST QTY COST 2 7.6 32 14.5 13 5.6 30 12.0		32 13.9 13 5.6 30 12.0 1.0		12.0
0UT 0TY 30		30		30
.83 CCST 5.6		5.6		5.6
617 017 13		13		13
82 COST 14.9		13.9	)  -	14.9
FY- QTY 32		32		32
FY-81 QTY COST		6.7	₩.Q.=	2 7.6 32 14.9 13 5.6 30 12.0
F.Y.		7		Ì
PRIOR QTY COST				! ! !
PR 017				) (
SCCPE OF PROGRAM:	BASIS FOR COST ESTIMATE:	NONRECURR ING K I T S	DATA TPAINER SUPPORT EQUIP.	TOOLING TOTAL

METHOD OF IMPLEMENTATION: INSTALLATICN - DEPCT/FIELC TEAM LEAD TIME - 15 MONTHS

FY-82 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: VINSCN TAC SECURE VOICE, MM-3025

MODELS OF AIRCRAFT AFFECTED: C-141

DESCRIPTION/JUSTIFICATION: TO PROVICE KY-58 TO SECURE UPF/VHF VOICE COMMUNICATIONS. GROUP A TO SECURE 2 JHF AND 2 VHF RADIOS WILL BE PROVIDED IN DEPOT. GROUP B EQUIPMENT WILL BE INSTALLED BY THE OPERATING COMMAND. TRAINERS WILL BE MODIFIED TO REFLECT A/C CONFIGURATION. BASED ON HQ USAF ELECTRONIC SECURITY CCMMAND REQUIRED CPERATIONAL CAPABILITY, ESC ROC 1-77, TACTICAL SECURE VOICE, 20 JUNE 1977, APPROVED BY HQ USAF ON 22 DECFMBER 1977. REQUIREMENTS BASED UPON WAJCOM CONCEPTS OF EMPLOYMENT AND/CR CIRECTED DUD CONSOLIDATED GUIDANCE.

	A L	COST		8.1	
	101	Q1 Y COST		274	
	YEAR	COST	!!!	3.3	
	100	V 10	! !	124	
	.83	CCSI	!!!!	5.9	
	<u>-</u>	Q17	1	95	
	8.2	QTY COST QTY CCST QTY COST	1111	55 1.9 95 2.9 124 3.3	
	FY-	OT.	1	55	
	81	CCST	1   1		
	F	QTY	!!!		
	C.R	QTY CCST QTY CCST	1 1 1 1		
	PR	V TO	!		
SC CPE UF PROGRAM:					BASIS FOR CCST ESTIMATE:
J. P.					FOR (
SCCPE					BASIS

•3	7.0	4.	4.		8.1
-	273			1 1 1	274
	3.3				3.3
	124				124
	1.3 55 2.4 124 3.3	4.	-	+ + + + + + + + + + + + + + + + + + + +	55 1.9 95 2.9 124 3.3
	52			1 1 1	95
•3	1.3	*	•3	1 1 4 1 1	1.5
-	54				55
				1 1 1	
ING					
NOMBECURE ING			252		_
NON	KITS	DATA	TRAINER		101 AL

METHOD OF IMPLEMENTATION: INSTALLATION - DEPCT LEAD TIME - 9 MONTHS

FY-32 APPRUPRIATION: AINCRAFT PRECUREMENT, AIR FORCE

MEGIFICATION TITLE AND NO: JOINT CRISIS MANACEMENT CAPABILITY

MCHELS OF ATHCRAFT AFFECTED: C-141

DESCRIPTION/JUSTIFICATION: JCMC 1S TO MEET THE THEATER CINCS NEEDS FOR AN IMPROVED, QUICK REACTION CRISTS MANAGEMENT CAPABILITY.

T O T A L QTY COST 16 22.3	,	20.0	22.3	
1 0 qrv		91	16	
OLTYEAR CTY COST		8 10.2	8 10.2	
0LT CTY 8		60 i	60	
FY-83 QTY CCST 8 12-1		2.3 8 9.8 8 10.2	8 12.1	
FY-		80	<b>6</b> 23	
FY-82 CTY CGST			 	
FY- C17			\ ! !	SH
FY-81 QTY CCST			!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	EPCT 6 MON1
£ 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			!	
PRIOR FY-81 QIY CCST QIY CCST			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	INSTALLATICA - DEPCT LEAD TIME - 6 MONTHS
4 × 1			1	INSTA
SC CPE OF PROCKAM:	BASTS FOR COST ESTIMATE:	NOVREGURATNG KITS	TCTAL	METHOU OF IMPLEMENTATION:

CY-32 APPROPRIATION: AIRCEAFT PRECUREMENT, AIR FORCE

M. THE ICATION TITLE AND NOT FUEL SAVINGS ADVISORY SYSTEM, MN-104028

MODELS OF AIRCRAFT AFFECTEDS C-141

FESCHIPTERAJUSTIFICATION: INSTALLS AN CFF-THE-SHELF FUEL SAVINGS ADVISORY SYSTEM. DECLINING OIL RESERVES AND INCREASING FUEL COSTS CICTATE FUEL CONSERVATION TO THE MAXIMUM EXTENT POSSIBLE.

28.6 T 0 T A L QTY COST OLTYEAR GTY COST UTY CCST F Y-83 FY-82 CTY COST 21.5 239 FY-81 .017 CCST 1.1 Ş UTY CEST P.P.I.⊝Fe AASTS FOR COST ESTIMATE: SCCPF OF PROGRAM:

21.5 508 6.5 S F C 341 5 - ( ) 381 74

28.0

569

28.6

21.5 7.1 209 **61** 1.1

METHOD IS EMPLEMENTATIONS: INSTALLATION - CEPCT/FIELD TEAM LEAD TIME - 12 MONTHS

MEDIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPREPAINTION: AIRCHAFT PRCCUREMENT, AIR FORCF

MIDIFICATION TITLE AND NOT - REFURPISH FLT SIMULATOR, MN-105028

MIDELS OF APPEART AFFECTED: C-141

SUPPORTABILE. THESE SIMULATORS HAVE ACCUMULATED AN AVERAGE OF APPROX 90,000 TRAINING HOURS IN APPROX 13 YEARS OF USE. BASED ON CURRENT PROGRAMMING, THEY WILL BE USED FOR AN ADDITIONAL 20 DESCRIPTION/JUSTIFICATION: PROVIDES A PROGRAMMABLE DIGITAL COMPUTER TO IMPROVE MAINTAINABILITY AND CURPENCY OF COMFIGURATION WITH THAT OF THE AIRCRAFT, WHILE BECOMING MORE LOGISTICALLY YEARS, AND WILL ACCUMULATE AN ADDITIONAL 104,000 TRAINING HOURS.

24.8 13.7 T O T A L 3.1 77 OTY COST CUTYFAR QTY CCST FY-83 OTY CCST 11.1 1 FY-82 UTY COST FY-81 5.6 COST 1.2 PRICE ÇIX PASTS FOR COST ESTIMATE: SUCPE OF PRESRAM: SUPPORT FUUTP. NUMPECUAR ING KITS

METHIC OF IMPLEMENTATION: INSTALLATION - CONTRACTOR

OF AIRCRAFT FY-82 PROGRAM MODIFICATION

FY-82 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FORCE

MUDIFICATION TITLE AND NC: IMPRCVED FLICHT RECERDING SYSTEM, MN-19608A

MODELS OF AIRCRAFT AFFECTED: C-141

PTION/JUSTIFICATION: THE PRESENT SYSTEM RECORDS 4 PARAMETERS CN FOIL. HIGH FAILURE RATES, ALONG WITH NO MEANS OF VERIFYING PROPER RECORDING OF DATA AND THE LIMITED NUMBER OF PARAMETERS, REQUIRE AN IMPROVED SYSTEM TO PERMIT MORE COMPREHENSIVE INVESTIGATIONS. MOD INCLUDES: INSTALL OF A FLIGHT DATA ACQUISITION UNIT, AFT LOCATED RECORDER, AND COCKPIT VOICE RECORDER. DESCRIPTION/JUSTIFICATION:

SCCPE OF PROGRAM:					i	,		,		!	1		
	œ.	<b>1</b> 0 R	FY	18.	<u>-</u>	82	<u>,</u>	-83	100	rear	0	. A .	
	Q1 Y	QTY CCST	QTY	QTY CCST	QTY	QTY COST QTY	ΥTΩ	QTY COST Q	Q17	QTY COST	410	QTY COST	
	1	1111	!	1 1 1	1	1 4 4	1	1	1		1 1 1	1 1 1 1	
					124	124 8.7	82	4.2	68	68 3.4	274	16.3	
BASIS FOR COST ESTIMATE:													
					-	•					-	,	
NUNKELOKFING					4	1.7					-	7 • 7	
KITS					123	123 5.6	85	4.1	68	68 3.4	273	13.1	
DATA						9•						9•	
TRAINER						-:		٠.				•2	
SUPPORT EQUIP.						•3						<b>.</b> 3	
	1 1 1	11111					,		1111		1 1 1	1 + 1 - 1	
T OT AL					124	124 8.7	82	82 4.2 68 3.4	68	3.4	274	16.3	

METHOD OF IMPLEMENTATION: INSTALLATION - DEPCT/FIELE TEAM LEAD TIME - 23 MONTHS

FY-82 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FORCE

FIRE/OVERHEAT DETECTION SYSTEM, MN-68C338 MCDIFICATION TITLE AND NO:

MODELS OF AIRCRAFT AFFECTED: C-141

DESCRIPTION/JUSTIFICATION: THE EXISTING SYSTEM HAS ENCOUNTERED NUMEROUS SENSING ELEMENT PROBLEMS
#HICH ARE INHERENT TO AN ELECTRICAL TYPE SYSTEM, SUCH AS FALSE ALARMS, CAUSING ENGINE
SHUTDCWNS, FIRE EXTINGUISHERS TO BE DISCHARGED, AND MISSION ABORTS. MOD ACCOMPLISHES: FALSE
ALARMS WILL BE VIRTUALLY ELIMINATED AND SYSTEM LESS COSTLY TO MAINTAIN. THE PROPOSED GAS TYPE
SYSTEM INCLUDES REPLACEMENT OF SENSING ELEMENTS, FLEXIBLE CABLES AND CONTROL BOXES. PRESENT
SYSTEM AVERAGES 50 AIR ABORTS PER YEAR, EXPOSING CREWS AND PASSENGERS TO UNNECESSARY RISKS.

A L COST 	* ;	5. 4.	5.1
T 0 T A L QTY COST 274 5-	post (	273	274
OUTYEAR QTY COST			1
		3.0	3.1
FY-82 FY-83 QTY COST QTY COST 		132 2.5 140 3.0	132 2.6 140 3.1
-82 COST		2.5	2.6
FY- 01Y 132		132	132
FY-81 QTY COST			( )
PRIOR QIY COST	*	* *	* 2
	BASIS FUR CUST ESTIMALE: NONRFCURRING	KITS DATA TRAINER	

METHOD OF IMPLEMENTATION: INSTALLATION - CRG/INTERMEDIATE LEAD TIME - 20 MONTHS

131

FY-82 APPROPRIATION: AIRCRAFT PRECUREMENT, AIR FORCE

MCDIFICATION TITLE AND NO: REPLACEMENT OF SINGLE AXIS RATE GYRO, MN-68073C

MCDELS OF AIRCRAFT AFFECTED: C-141

DESCRIPTION/JUSTIFICATION: THE PRESENT SINGLE #XTS RATE GYRC IS EXPERIENCING MECHANICAL WEARDUT.

RESULTING IN MISSION ABORTS. HIGH LOGISTIC SUPPORT COST AND MAINTENANCE MAN-HOURS. THE NEW RATE SENSOR ELIMINATES ALL MCVING PARTS AND GIVES AN INCREASED MEAN TIME BETWEEN FAILURE OF 37,000 HOURS. THIS MODIFICATION CONSISTS OF REPLACING THE SINGLE AXIS RATE GYRC WITH THE LATEST STATE—OF—THE—ART RATE SENSOR OF THE YAW DAMPER RUDDER CONTROL CIRUIT. THIS MODIFICATION WILL AMORTIZE IN 3.2 YEARS WITH GREATLY RECUCED LOGISTICS SUPPORT AND INCREASED

SCOPE OF PROGRAM:											
	PRIOR		FY-81	ŭ.	-82	<b>J</b>	-83	CL	YEAR	0 -	_ A L
	OTY CCST		QTY CCST	QIY	QTY COST C	<b>V10</b>	QTY CCST	CTY	CTY COST	Q17	QTY COST
	, , , , , ,	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	!!!!!	1	1 1	!	1 1 1	1	1 1 1		
				274	274 2.5					274	5.9
BASIS FOR COST ESTIMATE:											
NONPECURRING				-	~.					<b>,4</b>	7.
KITS				273	273 2.3					273	2.3
DATA					٠.						5,
TRAINER					#						*
		1				1	11111	1111	1 ! ! !	1 (	1 1 1 2 1
TCTAL				274	274 2.9					274	5.9

METHOD OF IMPLEMENTATION: INSTALLATION - CRG/INTERMECIATE LEAD TIME - 15 MCNTHS

332

FY-82 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FORCE

MODIFICATION TITLE AND NC: EJECTION SEAT SEGUENCE, MN-18203A

MODELS OF AIRCRAFT AFFECTED: T-38

FROM JUSTIFICATION: INSTALLS AN EJECTION INTERSEAT SEQUENCING SYSTEM THAT CAN BE INITIATED FROM EITHER SEAT POSITION, EJECTION SEAT CIVERGENCE, AN ALL GAS ACTUATED SEAT/MAN SEPARATION SYSTEM, AND A BALLISTIC PCWEREC INERTIAL REEL. THIS MCC WILL INSURE CORRECT EJECTION POSTURE, WILL ELIMINATE SEAT/MAN SEPARATOR FIRING LANYARD ENTANGLEMENT OR PREMATURE ACTUATION AND PREVENT COLLISION OF EJECTED ORFW MEMBERS. DESCRIPTION/JUSTIFICATION:

SC CPE OF PROGRAM:												
	PR	ICR	FY	FY-81	£Υ	-82	FY	-83	DOL	YEAR	0 1	TAL
	QTY	QTY COST (	OIY	OIY CCST	QTY	COST	VIO	QTY COST QTY CCST Q	QTY	QTY COST	Q1 Y	QTY COST
	!	1 1	1	1 + 1	1	1	-	1	]   	!!!!	1	1
	-	1 .5 118 1.3	118	1.3	480	480 5.3 285 3.5	285	3.5			884	10.6
BASIS FOR COST ESTIMATE:												
NONRECURRING	-	5.									-	ř.
KITS	ı		1 18	118 1.2 480 5.3 285 3.5	480	5.3	285	3.5			883	10.0
IRAINER				*								*
SUPPORT EQUIP.						*						*
TOOLING				.1								
	1		1111	11111	1 1		1	69196 PIBS 63198 6811 18188 4687 4797 2797 2717 1717 8		1 1 1 1	1 1 1	
TOTAL	1	1 .5 118 1.3 480 5.3 265 3.5	118	1.3	480	5.3	285	3.5			884	10.6

METHOD OF IMPLEMENTATION: INSTALLATION - DEPCI/CONTRACTOR LEAD TIME - 18 MONTHS

SULING OT L DATE OF

MCDIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPROPRIATICA: AIRCRAFT PRECUREMENT, AIR FCRCE

MODIFICATION TITLE AND NO: ALE-40 FLARE SYSTEM, MN-3004

C-13CE (SKE EGLIPPED) MODELS UF AIRCRAFT AFFECTED:

DESCRIPTION/JUSTIFICATION: THIS MODIFICATION INSTALLS AN ALE-40 FLARE LAUNCH SYSTEM WHICH WILL PROVIDE A MEASURE OF PROTECTION FROM ENEMY LAUNCHED SAMS WITH IR SEEKERS. DESCRIPTION/JUSTIFICATION:

SCOPE OF PROGRAM:

T 0 T A L QTY COST 344 12.9	11.7	12.9
T 0 T QTY 344	340	344
0UTYEAR QTY COST	6.5	6.5
0017 QT.Y  159	159	159
FY-83 QIY CCSI	17 .7 164 4.5 159 6.5	17 1.7 164 4.5 159 6.5
FY- QTY  164	164	164
FY-82 QTY CGST Q	.7	1.7
67- 017 17	1.7	17
-81 CCST		1   
	!	· { }
PRIGR OTY COST	<b>~</b> **	• 5
PRI 017	4 +	<b>*</b>
BASIS FUR COST ESTIMATE:	NONRECURRING KITS DATA SUPPORT EQUIP.	TOTAL METHOD OF THE CONTRACTOR

INSTALLATION - CEPUT LEAD TIME - 12 MONTHS METHOD OF IMPLEMENTATION:

134

FY-82 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FORCE

VINSCN TAC SECURE VGICE, MN-3025 MUDIFICATION TITLE AND NC:

MODELS OF AIRCRAFT AFFECTED: C-13C

IPTIDN/JUSTIFICATION: TO PROVIDE TACTICAL SECURE VOICE FOR UHF/VHF. BASED ON HQ USAF ELECTRONIC SECURITY COMMAND REGUIRED CPERATIONAL CAPABILITY, ESC ROC 1-77, TACTICAL SECURE VOICE, 20 JUNE 1977, APPRCYEC BY HG US#F CN 22 CECEMBER 1977. REQUIREMENTS BASED UPON MAJCOM CONCEPTS JF EMPLOYMENT AND/OR DIRECTED DOD CONSCLIDATED GUIDANCE. DESCRIPTION/JUSTIFICATION:

SCOPE OF PROGRAM:

	T O T A L QTY COST 683 18.1		2.8	
	7 0 1 QTY 	11 672	683	
	OLTYEAR OTY COST	8	8.4	
	0LT 0TY 416	4.1 416 8.4		
	FY-83 QTY CCST 216 7.7	4 .	7.7 416	
		.6 1.2 216 .2		
	FY-82 2TY CCST 51 2.0	.6 1.2 .2	51 2.0 216	
	<b>J</b> 1	11	51	
	FY-81 QTY CCST			1
	67.Y			
	PRIOR QIY CCSI			
	PR			TALCHAR AND A
•	BASIS FOR COST ESTIMATE:	NONRECURRING KITS DATA TRAINER SC-15 CADSHIELZOGG	TOTAL	THE TANK THE TANK THE TANK THE

INSTALLATION - DEFCT/CCNTRACTOR LEAD TIME - 18 MONTHS I MPLE MENTAIION:

And the second second second second

MCDIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: PARKHILL TAC SECURE VOICE, MN-3063

MODELS OF AIRCRAFT AFFECTED: C-130

DESCRIPTION/JUSTIFICATION: TO PROVIDE TACTICAL SECURE VOICE FOR PF. BASEC ON HOUS AF ELECTRONIC SECURITY COMMAND REQUIRED CPERATIONAL CAPABILITY, ESC ROC 1-17, TACTICAL SECURE VOICE, 20 JUNE 1977, APPROVED BY HOUSAF CN 22 DECEMBER 1977. REQUIREMENTS RASED UPON MAJCOM CONCEPTS OF EMPLCYMENT AND/OR DIRECTED DCD CONSOLICATED GUIDANCE.

-4 -4	C0 ST	!	20.0		9.	18.4	•2	φ.		20.0
101	QTY COST		683		11	672			1 1 1 1	683
YFAR	CTY COST	!	11.1			11.1			1 1 1 1	11.1
THU	C1 X	!	416			416				915
.83	QTY CCST	1	216 6.3 416 11.1			1.8 216 5.5 416 11.1		∞•		51 2.6 216 6.3 416 11.1
¥.	QTY.	!	216			912				516
- 82	CTY CCST Q	1	2.6				•5			2.6
r Y	CIY	!	5 1		11	40				15
- a:	OTY CCST	1111								
) L	Q1X	1							1111	
108	QTY CCST	1 1 1							1	
à	710								1	
SCOPE OF PROGRAM:				BASIS FOR COST ESTIMATE:	NONRECURR ING	KITS	DATA	TRAINER		TOTAL

METHOD OF IMPLEMENTATION: INSTALLATION - DEPCT/CONTRACTOR LEAD TIME - 18 MONTHS

A STATE OF THE PARTY OF THE PAR

FY-82 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FCRCE

MCDIFICATION TITLE AND NO: INSTALLATION OF FLIGHT DATA RECORDER, MN-10603A

MCDELS OF AIRCRAFT AFFECTED: C-13C

DESCRIPTION/JUSTIFICATION: FOUR C-130 MISHAPS CURING 1978, EACH INVOLVING LOSS OF AIRCRAFT AND HUMAN LIFE, EMPHASIZES THE NEED FOR A RECORDER SYSTEM. WHEN ALL CREW MEMBERS SUFFER FATAL INJURIES, THE ACCIDENT INVESTIGATION BOARD MEMBERS USUALLY HAVE TO SURMISE THEIR FINDINGS. SUCH ACTION OFTEN LEADS TO EXPENSIVE FORCE RETROFITS OR FORCE DOWNTIMES. A RECORDER SYSTEM WILL CUT UNNECESSARY RETROFITS CAUSED BY ACCIDENT INVESTIGATION BOARD DIRECTIVES BASED UPON

SC CPE UF PRUGRAM:												
	PR	IOR	<del>ار</del> ۲	18-	FY	FY-82		-83	DOT	YEAR	101	AL
	710	QTY COST	Q T Y	QTY COST	QTY	QTY COST		QTY CCST	Q1 Y	QTY COST	CIY	CTY COST
	1 + 1	1	f   	!	!	!!!!	1		1	1 1 1	1 1 1 1	1 1 1
					14	6.4	170	14 4.9 170 10.1	532	532 31.0	716	46.0
BASIS FOR COST ESTIMATE:								)  -  -	<b>!</b>	! !	•	) •
					۲	6					,	,
KITS					. ~		170	0.6	532	31.0	602	40.3
DATA						1.0	!	1.0	)	, !	•	1.0
TRAINER						4.						5.
SUPPORT EQUIP.								1.0				1.0
	1-1		-		1		11111				1	1 1 1
TOTAL					14	<b>6.4</b>	170	14 4.9 170 10.1 532 31.0	532	31.0	716	46.0

METHOD OF IMPLEMENTATION: INSTALLATION - CEPOT LEAD TIME - 12 MONTHS

CF AIRCRAFT FY-82 PROGRAM MCDIFICATION

FY-82 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FORCE

PROPELLER FLIGHT ICLE STOP, MN-10612A MODIFICATION TITLE AND NO:

MODELS OF AIRCRAFT AFFECTED: C-13C

INTO REVERSE. THIS OCCURS IF A THROTTLE INCREASE CABLE BREAKS ON EITHER AN AIRCRAFT WITH AN UNDAMPENED THROTTLE CABLE TENSICN REGULATOR DAMPENER. THREE INCIDENTS HAVE OCCURRED AS A RESLLT OF BROKEN THROTTLE CABLES. THIS MODIFICATION WILL INSTALL A MECHANICAL STOP ON THE PROFELLER, CONTROL SWITCHES IN THE THROTTLE QUADRANT, AND THE NECESSARY INTERCONNECTING WIRING. DESCRIPTION/JUSTIFICATION: THE FLIGHT IDLE STOP WILL PREVENT THE PROFELLER FROM INADVERTENTLY GOING

SCOPE OF PROGRAM:												
	PR	IOR	خ. نا	-81	ż	-82	¥	-83	CUT	YEAR	101	AL
	QΙΥ	QTY CCST	QTY	QTY COST	٩T٧	QTY COST	QTY	QTY COST	QTX	QTY COST	710	QTY COST
	1	† † †		1	} 	-		-	†			1 .
	4	4.		270 3.3 360 5.6	360	5. ¢	59	65 1.2			703	10.4
BASIS FOR COST ESTIMATE:												
NONRECUR R ING	2	1.									2	٠.
KITS	7	*	270	3.3	360	270 3.3 360 5.6 69 1.2	69	1.2			101	10.1
DATA		•2										•2
SUPPORT EQUIP.		*										*
	! ! !	#		11111							* * * * * *	
TOTAL	4	•3	270	3 • 3	360	.3 270 3.3 360 5.¢ 69 1.2	69	1.2			703	10.4

INSTALLATION - DEPCT LEAD TIME - 17 MCNTHS HETHOD DE IMPLEMENTATION:

MCEIFICATION OF AIRCRAFT FY-82 PROGRAM FY-32 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FORCE

INSTALL CCCKPIT VCICE RECORDER, MN-196C7A MODIFICATION TITLE AND NC:

C-130 MODELS OF AIRCRAFT AFFECTED:

DESCRIPTION/JUSTIFICATION: FOUR C-130 ACCIDENTS CURING 1978, EACH INVOLVING LOSS OF AIRCRAFT AND LIFE, EMPHASIZE THE NEED FOR A RECORDER SYSTEM. WHEN THERE ARE NO SURVIVORS, ACCIDENT INVESTIGATION BOARDS HAVE TO SURMISE THE CAUSES AND EVENTS LEADING TO THE ACCIDENT. IF THIS MODIFICATION IS NUT APPROVED, FURTHER C-130 AIRCRAFT ACCIDENT INVESTIGATIONS WILL CONTINUE TO BE BASED ON LIMITED DATA. ONCE IMPLEMENTED, THIS RECORDER SYSTEM WILL REDUCE UNNECESSARY MODIFICATIONS CAUSED BY DIRECTIVES WHICH ARE BASED ON LIMITED DATA.

GTY COST	£ 8 £ 9	0.6	
T 0 QTY 672	8 664	672	
OUTYEAR OTY COST	2.6	227 2.5 221 2.6 210 2.6	
017 017 210	210	210	
83 COST 2.6	227 2.5 221 2.6 210 2.6	2.6	
FY- QTY 221	221	221	FIELD
FY-82 QTY COST	2.5	2.5	TEAM
	722	227	FIELD THS
PRIOR FY-81 QTY CCST QTY CCST		227 2.5 221 2.6 210 2.6	CA - CEPCT/1
PRIOR UTY CCST	8 9	***************************************	INSTALLATION - DEPCT/FIELD TEAM/FIELD
SCCPF OF PRCGRAM:	BASIS FOR COST ESTIMATE: NCNRECURING KITS	TRAINER SUPPORT EQUIP.	METHOD OF IMPLEMENTATION:

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## MODIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: OUTER WING, MN-196108

MODELS OF AIRCRAFT AFFECTED: C/HC-1308/E/H/P/N

MODIFICATION IN THE MID 80'S DUE TO FATIGUE AND CORROSION PROBLEMS AT SEVERAL LOCATIONS ON THE WING. FAILURES HAVE OCCURRED IN THE OUTER WING LOWER FRONT BEAM CAPS, WITH RELATED CRACKS FOUND IN SPAR WEBS AND LOWER FORWARD WING SKIN FANELS AND STRESS CORROSION CRACKING HAS BEEN IDENTIFIED IN THE WING DRY BAYS. INTERIM SOLUTIONS OF REPAIRING OR REPLACING FAILED COMPONENTS HAVE BEEN IMPLEMENTED. STRUCTURAL INTEGRITY DATA INDICATES REQUIREMENT FOR CUTER WING DESCRIPTION/JUSTIFICATION:

	OUTYEAR
	FY-83
	FY-82
	FY-81
	PRICE
AM:	
PRCGR	
O.F	
SCOPF OF PREGRAM:	

SCOPF OF PROGRAM:												
	A d	PRICE	Ε¥	FY-81		-82	Ε¥	-83	Ö	FYEAR	-	7 A L
	<b>V1</b> 0	QTY COST		Q1Y CCST		QTY CCST GTY CCST QTY COST	CTY	CCST	Q1 Y	COST	CTY	CUST CUST
	!	1	!	1	1		<b>!</b>	F		#	1 1 1	;
			12	19.8	105	12 19.8 105 67.5 70 48.0 310 241.1	70	48.0	310	241.1	497	
BASIS FOR COST ESTIMATE:												
				u								<b>4</b>
NUNKELUKK ING				10.0								C • O 1
KITS			12	ထ ထ	501	61.5	70	48.0	31 C	241.1	4 97	365.4
DATA				.5						• 5		• 5
	!!!!				1	4 + + + 1 + + + + + + + + + + + + + + +		1111	1 1		+ +	1 1 1 1 1
TOTAL			12	19.8	105	12 19.8 105 67.5 70 48.0 310 241.1	10	48.0	310	241.1	165	497 376.4

INSTALLATION - DEPCT/PDM LEAD TIME - 33 MCNTHS METHOD OF IMPLEMENTATION:

# MODIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPROPRIATION: AIRCRAFT PRUCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: AFTERBODY STRAKES, MN-680598

MCDELS OF AIRCRAFT AFFECTED: C-130

DESCRIPTION/JUSTIFICATION: STRAKES ARE NEEDED FCR DRAG REDUCTIUN AND FUEL CONSERVATION. PRICP STUDIES INDICATE SUBSTANTIAL FUEL SAVINGS PCSSIPLE AND AMCRTIZATION POSSIBLE IN 2 TU 5 YFARS, DEPENDING ON FUEL COSTS.

SCOPE OF PROGRAM:	PR IOR	u.	.Y-81		-82	). L	1 83 83	GLT	YEAR	101	A L
	QTY CCST	YTC 1	OTY CCST		CCST	VI (	01Y COST 01Y COST	710	COST	710	QTY CUST
		 			4.4	205	3.1	200	3.2	106	10.7
MASIS FOR COST ESTIMATE:				30.1	301 4.3 205 3.1 200 3.2	205	3.1	200	3.2	106	10.6
DATA	1	!	}		7.		         			1	
TOTAL				301	301 4.4 205 3.1 200 3.2	205	3.1	200	3.2	106	10.7

METHOD OF IMPLEMENTATION: INSTALLATION - DEPCT LEAD TIME - 12 MONTHS

## MCCIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPRUPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MCDIFICATION TITLE AND NOT 100Kh TRANSMITTER, MN-30FC

MODELS OF AIRCRAFT AFFECTED: EC-135 C.M./J.P

DESCRIPTION/JUSTIFICATION: THE 10C KILCHATT TRANSMITTER IS A FICHER POWFR MODIFICATION TO CURRENT AN/ARC-96 WHICH IS A 20 KILOWATT SYSTEM. THE 100KW TRANSMITTER WILL INCHEASE RADIATED POWER OF THE VLF/LE TRANSMISSIONS FROM THE EC-135 PY SEVEN OB, PROVIDING A SIGNIFICANT INCREASE IN RANGE OR IMPROVED PERFORMANCE IN HOSTILE CONDITIONS AT ANY CIVEN RANGE.

SCOPE OF PROGRAM:	PRIUR EY-R1 FY-R2 FY-R3 GUTYEAR OTY COST CTY CTY CTY CTY CTY CTY CTY CTY CTY CT	6 Y-92 01 Y (051 	FY-92 FY-83 CLIVEAP CIY COST CIY COST CTV COST	017YEAP 017 (1151 2.6	1	A ( ) ST
BASIS FOR COST ESTIMATE:						•
KITS DATA CHOPORT FOUIP.		4 4		· · ·	7 :	4 - 4 · · ·
TOTAL	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5-11-5	4 11.9 11 14.5 8 3.6	3 3 4 6	<b>7</b> ~	70.7
NOTIVE SECTION 1 TO CONTRA	INSTALLATION - CEPCT					

WETHOD OF IMPLEMENTATION: INSTALLATION - DEPOT Leas time - 15 minims

FY N. P. AIRLANT

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2.5 7.4 32.6 4.0 44.6 1 1 7 1 4 1 JTY (1951 1 1 3 1 19 24.4 ( • ; PROBLEM TO A STATE OF THE STATE 19 77.5 19 27.6 ) (° ٠. ن I 7 . s 2 х, \* : ; ; --. . v 10.131 CATA --

METALL BEST WESTERS OF TANDALLASSES AND THE MOUNTAINS OF THE PROPERTY.

\*ODIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPRJPRIATIOM: AIRCRAFT PROCUKEMENT, AIR FORCE

MCDIFICATION TITLE AND NO: FUEL SAVINGS ADVISCRY SYSTEM, MN-104028

MUDELS OF AIRCRAFT AFFECTED: C-5

PPIGON/JUSTIFICATION: INSTALLS AN CFF-TFF-SHELF FUEL SAVINGS ADVISCRY SYSTEM. DECLINING OIL RESERVES AND INCREASING FUEL CCSTS DICTATE FUEL CONSERVATION TO THE MAXIMUM EXTENT POSSIBLE. DESCRIPTION/JUSTIFICATION:

SC CPF OF PROGRAM:											
	PRICR	<b>≻</b>	-81	Ϋ́	-82	¥	-83	10.	YEAR	. 0 1	I A L
	QTY CCST QTY COST QTY COST QTY COST Q. COST	QTY	COST	QTY	C051	V10	0051	;	COST	Ç1.	CIY COST
	1 1 1 1	{	1 1 1	1	1	1	1	1			1 1 1
		12	12 2.5 28 3.3 37 4.8	28	ω ε	3.7	4.8			11	11.0
BASIS FOR COST FSIIMATE:											
NONRECURRING		-	.7								7.
115		11	1.1	5.8	28 3.3 37 4.8	37	4.8			16	9.2
DATA			. 7								7.
TRAINER			4.								4.
					1 1 1	!	1 1 1	† 	1 1 1 1	1 1 1	1 1 1 1 1
TUTAL		12	12 2.5 28 3.3 37 4.8	28	6.	37	4.8			11	11.0

METHOD OF IMPLEMENTATION: INSTALLATION - DEPCT LFAD TIME - 12 MONTHS

AIRCRAFI MCDIFICATION OF AIR FY-82 PROGRAM

FY-32 APPROPRIATION: AIRCRAFT PRECUREMENT, AIR FURCE

MUDIFICATION TITLE AND NO: H-WING MODIFICATION, MN-18238B

MUDELS OF AIRCRAFT AFFECTED: C-5

PTION/JUSTIFICATION: THE CURRENT C-5 WINGS HAVE AN ESTIMATED 7,100 HOUR ... '1 LIFE. TH FIRST C-5A WILL REACH ITS SFRVICE LIFE BY 1982 UNLESS MODIFIED. THIS MCLIFICAT,ON WILL INSTALL A NEW CENTER, INNER AND CUTER WING TO EXTEND THE C-5A LIFE BY 30,000 FLYING HOURS OPERATING AT A 200,000 POUND NCPMAL PAYLCAD. DE SCRIPTION/JUSTIFICATION:

SC CPE UF PROGRAM:												
	PR	PRIOR	Ϋ́	-81		8.2	FY-82 FY-83	٥	UTYEAR		0	A L
	QTY	COST	Q 1 Y	QTY COST	_	QTY COST	QTY CCST	10 1	QTY COST		<b>&gt;</b> -	CTY COST
	- 4	87.7	12	12 166.7	181	18 192.5	4 87.7 12 166.7 18 192.5 18 190.7		24 243.4	i	76	881.0
BASIS FOR COST ESTIMATE:		•	ļ !	1 1		  -  -			)   			
×115	4	74.6	12	151.8	18 1	92.5	18 190.	7 2	4 243.	4	76	853.0
TOOLING MOD OF SPARES		8.0		11.1 3.8			8.0 11.1 5.1 3.8					19.1 8.3
TETAL	4	87.7 12	12	166.7 18 192.5	181	92.5	4 87.7 12 166.7 18 192.5 18 190.7 24 243.4	7 24	4 243.4		92	881.0

METHOD OF IMPLEMENTATION: INSTALLATION - CONTRACTOR LEAD TIME - 30 MONTHS

#### MEDIFICATION OF AIRCRAFT FY-82 PRCGRAM

FY-32 APPROPRIATION: AIRCRAFT PRECUREMENT, AIR FORCE

MCDIFICATION TITLE AND NOT ALOS PHILL

EC/135 A/C/G MEDELS OF AIRCRAFT AFFECTED: ALTERNATIVE WEANS OF PRUGRAMMING/LAUNCHING MINUTEMEN MISSILES IN THE EVENT THAT GROUND LAUNCH ALTERNATIVE WEANS OF PRUGRAMMING/LAUNCHING MINUTEMEN MISSILES IN THE EVENT THAT GROUND LAUNCH CONTROL CENTERS (LOCS) ARE DESTROYED. THE CURPENT ALCS CAN SELECT PRESTORED TARGETS AND LAUNCH THE MISSILES. HOWEVER, IT CANNOT: (1) DETERMINE MISSILE STATUS (IT MUST "SHOOT IN THE DARK"); CR (2) RETARGET SURVIVING OR WITHHELD MINUTEMEN III MISSILES. PHASE III PROVIDES THESE ADDITIONAL CAPABILITES. DESCRIPTION/JUSTIFICATION:

T 0 T A L 0TY COST	33.2	4.5	1.0 5.0 1.1	33.2
0 1 710	6	1 8		6
CUTYEAR QTY COST				
F Y-83 QTY CCST	6 22.8	6 16.7	5.0	3 10.4 6 22.8
FY-82 CIY CCSI	3 10.4	1 4.5	1 • C	3 10.4 6
FY-81 QTY CCST				!
PRIOR CIY CCSI				1 1
SCOPE OF PROGRAM:	BASIS FOR COST ESIIMATE:	NCNRECURE ING	DATIS DATINER SUPPORT FOUIP.	TGTAL

LEAD TIME - 15 MONTHS METHOD OF IMPLEMENTATION: INSTALLATION - DEPCT

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MODIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPRUPRIATION: AIRCRAFT PRECUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: RE-ENGINE

MCDELS OF AIRCRAFT AFFECTED: KC-135

IPTION/JUSTIFICATION: PROCURES ALL HARDWARE REQUIRED TO RE-ENGINE CNE KC-135 AIRCRAFT WHICH HAS THE GLOER TECHNOLOGY J-57 TURBCJET ENGINES WITH NEW FUEL EFFICIENT, HIGH BY-PASS TURBO FAN ENGINES, INCREASING THE THRUST BETWEEN 40 AND 62 PERCENT DEPENDING ON ENGINE SELECTION. TOTAL DESIGN, DEVELUPMENT AND TESTING EFFORTS RELATING TO THIS PROTCTYPE ARE FUNDED IN THE RDIEE APPROPRIATION AND INSTALLATION LABER IS PLANNED IN THE GPERATION & MAINTENANCE APPROPRIATION. DESCRIPTION/JUSTIFICATION:

SCOPE OF PROGRAM:

T O T A L QTY COST	5.0 44.5 90.0 1 139.5
CUTYEAR QTY COST	;
FY-83 QTY COST	
FY- 01Y	-
FY-82 QTY CCST (	30.0
	) 1 1
FY-81 QTY COST  1 104.5	5.9 1 44.5 66.0 5.0 1 104.5
PRIOR QIY CCSI	5.0 1 44.5 66.0 5.0 1 104.5
4ATE:	A TI ON:
BASIS FOR COST E	NONRECURRING KITS TCOLING, ADV BUY TOTAL METHOD OF IMPLEMENTATION:

LEMENTALION: INSTALLATION - CONTRACTOR LEAD TIME - 30 MONTHS

MCDIFICATION OF AIRCRAFI FY-82 PROGRAM

FY-82 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FCRCE

MODIFICATION TITLE AND NO: STANCARD VHF AM/FM RADIO

MODELS OF AIRCRAFT AFFECTED: C-135 (KC/EC/RC)

DESCRIPTION/JUSTIFICATION: IN FEB 1977 THE AIR STAFF VALICATED A REQUIREMENT TO PROVIDE A 25KHZ VHF AM/FM RADIO CAPABILITY FOR SELECTED AIRCRAFT WHICH WERE AFFECTED BY THE FAA AND THE ICAO I MPLEMENTATION ON I JANUARY 1977 OF 25K+Z CHANNEL CCMMUNICATION WHERE VHF/AM IS THE PRIMARY FREQUENCY BAND FOR CIVILIAN/MILITARY AIR TRAFFIC CONTROL. THE GOAL OF THE DIRECTED PROGRAM IS TO MEET ALL KNOWN OPFRATIONAL REQUIREMENTS, STANDARDIZE THE VHF INVENTORY, IMPROVE RELIABILITY AND MAINTAINABILITY; AND MEET FAA/ICAC RECUIREMENTS.

SC CPE OF PROGRAM:												
	PR	PRIOR	¥	-81	7	-82	Ε¥	-83	OUL	YEAR	101	A .
	QTY	QTY COST	QTY	QTY COST	QTY	QTY COST (	QTY	QTY CCST	410	QTY COST	ÇTY	QTY COST
	ŧ !	1	!	1		!	!	1		† †		1 1 1
BASIS FOR COST FSTIMATE:			7	2 .7	168	168 3.8 168 2.7	168	2.7		337 5.7	675	12.9
NGNRECURRING			2	•							2	€,
KITS					168	168 2.7 168 2.7 337 5.7	168	2.1	337	5.7	673	11.1
DATA				4.								4.
TRAINER						•						٣,
SUPPORT EQUIP.						8						œ.
	!		!!!!!				1111		1 1 1		1 1 1 1	
TOTAL			2	٠.	168	2 .7 168 3.8 168 2.7 337 5.7	168	2.1	337	5.1	675	12.9

METHOD OF IMPLEMENTATION: INSTALLATION - DEPCT/PDM LEAD TIME - 12 MCNTHS

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MCDIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIF FCRCE

MODIFICATION TITLE AND NO: FUEL SAVINGS ALVISORY SYSTEM, MN-10462B

MODELS OF AIRCRAFT AFFECTED: C-135

DESCRIPTION/JUSTIFICATION: INSTALLS AN OFF-THE-SHELF FUEL SAVINGS ADVISORY SYSTEM. DECLINING DIL RESERVES AND INCREASING FUEL COSTS DICTATE FUEL CONSERVATION TO THE MAXIMUM EXTENT POSSIBLE.

SCCPE OF PROGRAM:

SCHIE OF PROGRAM:											
BASIS FOR COST ESTIMATE:	PRIOR QTY CCST	FY- 977 26	FY-81 QTY CCST 26 6.1	67 QTY 250	FY-82 QTY COST 	67.Y 07.Y 0.2. 34.2	FY-83 QTY CCST  342 32.0	0UTY 0TY 	T 0 1	T 0 T A L CTY COST  728 73.0	
NONRECURRING KITS DATA SUPPJRT EQUIP.		21	2.2 1.7 2.2	360	5 2.2 21 1.7 360 29.9 342 32.0 2.2 5.0	342	32.0		723	63.6	
TOTAL		26	6.1	360	26 6.1 360 34.9 342 32.0	345			728	73.0	

METHOD OF IMPLEMENTATION: INSTALLATION - DEPCT/FIELC TEAM LEAD TIME - 12 MONTHS MCDIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: MB-26 SIMULATOR UPGRADE, MN-10508B

MODELS OF AIRCRAFT AFFECTED: C-135

DESCRIPTION/JUSTIFICATION: THIS MEDIFICATION WILL REMEVE ALL ANALGE COMM/NAV EQUIPMENT AND REPLACE IT WITH DIGITAL OFF-THE-SHELF, STATE-CF-THE-ART COMPUTATION SYSTEMS AND EQUIPMENT WHICH CAN SIAULATE CURRENT AND PROPOSET AIRCRAFT COMMINAV SYSTEMS. THIS MODIFICATION IS REQUIRED TO INSURE COCKPIT CONFIGURATION CONCURRENCY AND LOGISTIC SUPPORTABILITY. ALSO REQUIRED TO MAINTAIN TRAINING CAPABILITY UNTIL THE LOW COST TRAINER PROGRAM CAN REPLACE THE MB-26.

	TOTAL	OTY C051
	0 1	V10
	OUTYEAR	OTY COST
	PRICE FY-81 FY-82 FY-83 QUIYEAR	CEST CEST
	FY-82	CIV COST
	FY-81	OTY COST
	PRICR	TY CLAT
SCCPE OF PROGRAM:		

16.4 16.4 16.4 18 8.6 8.6 σ Φ σ BASIS FOR COST ESTIMATE: TOTAL K ITS

METHOD OF IMPLEMENTATION: INSTALLATION - DEPCT LEAD TIME - 9 MCNTHS

150

## MODIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MCDIFICATION TITLE AND NO: LIFE EXTENSION-WING RESKIN, MN-143028

MCDELS OF AIRCRAFT AFFECTED: C-135

DESCRIPTION/JUSTIFICATION: SERVICE LIFE OF C-135 AIRCRAFT IS 8,5CC TANKER EQUIVALENT FLYING HOURS.

REPLACEMENT OF LOWER WING SKIN IS REQUIRED TO ALLOW THE AIRCRAFT TO MEET PROGRAMMED SERVICE
LIFE. FLIGHT RESTRICTIONS HAVE BEEN PLACED ON ALL AIRCRAFT EXCEEDING 8,500 FLIGHT HOURS.

MODIFICATION INSTALLS 2024-T351 MATERIAL WHICH HAS SUPERIOR CRACK TOLERANCE CHARACTERISTICS.

SC CPF OF PROGRAM:	PR QTY	PRIOR QTY COST	F Y.	FY-81 QTY COST	FY.	82 COST	FY 017	FY-83 OUTYEAR QTY COST QTY COST	0UI	YEAR COST	C T VIQ	T 3 T A L QTY COST
	318	111.7	72	72 32.0 72 34.4	72	34.4	72	39.0	206	148.1	740	365.2
BASIS FOR COST ESTIMATE:												
NONRECURRING KITS	318	4.2 318 105.7	72	72 31.4 72 33.8 72 39.0 206 148.1	72	33.8	72	39.0	206	148.1	140	4.2 358.0
DATA TOOLING				9.		9•		1	)   	!	 	2.5
TOTAL	318	318 111.7 72 32.0 72 34.4 72 39.0 206 148.1	72	32.0 72 34.4 72 39.0	72	34.4	72	39.0	206	148.1	740	365.2

METHOD OF IMPLEMENTATION: INSTALLATION - DEPCT LEAD TIME - 22 MONTHS

## MCDIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FORCE

REFURBISH FLIGHT SIMULATOR, MN-19505B MODIFICATION TITLE AND NC:

C - 135MODELS OF AIRCRAFT AFFECTED: RELOCATE THE OFFBCARD RADIC AIDS CONSOLE ONBOARD. PRESENT SYSTEM IS INCAPABLE OF ACCEPTING FLOCATE THE OFFBCARD RADIC AIDS CONSOLE ONBOARD. PRESENT SYSTEM IS INCAPABLE OF ACCEPTING FUTURE MODIFICATIONS, I.E., INS/DOFFLEF. THE COMPUTATIONAL SYSTEM IS LOGISTICALLY UNSUPPORTABLE. THE PRESENT CONTROL LOADING DOES NOT RESPOND LIKE THE AIRCRAFT. EXCESSIVE DOWNTIME IS BEING EXPERIENCED DUE TO LACK OF PARTS AND TECHNICAL EXPERTISE. DESCRIPTION/JUSTIFICATION:

SCCPE OF PROGRAM:												
	PRI	IC.R	Ϋ́	-81	FY	FY-82	¥	-83	OUL	rear	0 1	I A L
	QTY	COST	QTŸ	CCST	QTY	COST	QTY	QTY COST QTY CCST QTY CGST QTY CCST QTY COST	Q17	COST	CTY	CTY COST
		1	1		1	1	1		1	1 4 1 1		1 1
						1 4.5					-	4.5
BASIS FOR COST ESTIMATE:												
NONRECURR ING						2.5					1	2.9
DATA						1.6						1.6
				1111				1 1		1	1	1 1 1
TCTAL					-	1 4.5					-	4.5

METHOD OF IMPLEMENTATION: INSTALLATION - DEPCT LEAD TIME - 12 MONTHS

MODIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FORCE

MOSIFICATION TITLE AND NO: ENHANCEMENT (2C/25)

MODELS OF AIRCRAFT AFFECTED: E-3

DESCRIPTION/JUSTIFICATION: ENHANCES E-31 CAPABILITY BY PROVIDING A JCINT TACTICAL INFORMATION DISTRIBUTION SYSTEM TERMINAL, ADDITICNAL SITUATION CISPLAY CONSOLES, 5 ADDED UHF RADIOS, A NEW COMMAND CONSOLE FUNCTIONAL GROUP, AND EXPANDED COMPUTER MEMORY.

SCCPE OF PRUSRAM:

BASIS FOR COST ESTIMATE:	PRIGR FY-81 QIY CCSI QIY CCSI	<b>a</b> 1	-82 COST 	FY- QTY  13	FY-82 FY-83 GUIYEAR IY COST QIY CCST QIY COST	CUTYE QTY QTY 19	CUTYEAR QTY COST	1 0 QIY 33	T O T A L QTY COST
K I T S TRAINER		7	5.8	13	1 5.8 13 70.2 19 99.9	19	6.66	33	33 175.9
TOTAL		1	5.8	13	1 5.8 13 75.2 19 99.9	19 99.9	6.66	33	0.001
METHOD OF IMPLEMENTATION:	INSTALLATION - CONTRACTOR	TCR						3	

F IMPLEMENTATION: INSTALLATION - CONTRACTOR LEAD TIME - 25 MONTHS MCDIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-32 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FCRCC

MCDIFICATION TITLE AND NG: UPDATE

MODELS OF AIRCRAFT AFFECTED: E-3

IPTION/JUSTIFICATION: AIRCRAFT REQUIRE MOCIFICATION TO CORRECT DEFICIENCIES REVEALED DURING DEVELOPMENT AND INITIAL USE. CORRECTIONS ARE INCORPORATED IN PRODUCTION AT THE EARLIEST TIME. UPDATE MODIFICATIONS ARE REQUIRED TO MAINTAIN CONFIGURATION CONTROL OF DELIVERED AIRCRAFT AND THOSE TOO FAR INTO PRODUCTION FOR INCORPORATION. REQUIREMENTS LISTED ARE KNOWN PROBLEM AREAS AND ARE REPRESENTATIVE OF THE TOTAL MODIFICATIONS ANTICIPATED. DESCRIPTION/JUSTIFICATION:

SCCPE OF PROGRAM:

T 0 T A L QTY COST	75.0	1
7 TO Y TO		
OUTYEAR GTY COST	36.0	36.0
FY-83 QTY CCST Q	12.0	12.0
FY-82 F CTY CUST QTY	10.0	10.0
-81 FY- CCST GTY 10.0	1C. C	
FY-		
PRIOR QTY COST	7.0	7. C
BASIS FOR COST ESTIMATE:		
BASIS FO	AIRCRAFT	TOTAL

E-3a REPRESENTATIVE UPDATE MODIFICATIONS

RADOME IMPROVEMENT. REPLACES SURVEILLANCE HALF OF RADOME WITH NEW TAPERED DESIGN TO INCREASE RELIABILE DETECTION AND HEIGHT ACCURACY MEASUREMENT. (OLD RADOME IS RETURNED FOR PRODUCTION INCORPORATION ON IFF SIDE OF NEW AIRCRAFT.)

ATTITUDE AND HEADING REFERENCE SYSTEM (AHRS) REPLACEMENT. REPLACES CURRENT 200-400 HOUR MEANTIME BETWEEN FAILURE (MTBF) AHRS WITH A NEW STATE-OF-THE-ART REPLACEMENT (2000 HOUR MTBF).

FAST/SLOW INDICATOR. RELOCATES THE FLAP POSITION INPUT OF THE SPEED DEVIATION INDICATOR SUBSYSTEM TO THE OUTBOARD FLAP POSITION TRANSMITTER.

INSTALLS FUME DETECTORS IN LOWER LOBES TO PROVIDE EARLY FIRE WARNING FUME DETECTORS.

PROVIDE NEW SF-6 PRESSURE REGULATOR TO PREVENT LOSS DURING ALTITUDE CHANGES. PRESSURE REGULATOR.

PADDLE BOARDS. SUPPORT EQUIPMENT INTERFACE PADDLE BOARDS WILL BE RELOCATED TO MINIMIZE DAMAGE DURING HOOK-UP AND DISCONNECT.

MODIFICATION OF AIR FY-82 PROGRAM

FY-82 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MCDIFICATION TITLE AND NC: E-4A TC E-4B RECCAFIGURATION, MN-3044

E-4A MCDELS OF AIRCRAFT AFFECTED: DESCRIPTION/JUSTIFICATION: THREE E-4A INTERIM ADVANCED AIRBCRNE CCMMAND PCST (AABNCP) AIRCRAFT ARE SCHEDULED FOR RETKUFIT TO THE E-4B CCNFIGURATICN FCLLOWING DEFENSE SYSTEM ACQUISITION REVIEW COJNCIL (DSARC) III APPROVAL IN FARLY 158C. THE MODIFICATION CONSISTS OF RECONFIGURING THE INTERIM C-135 C3 EQUIPMENT INSTALLEC ON THE E-4A, AND INTEGRATING IT WITH THE NEWLY DEVELOPED E-4R C3 EQUIPMENT. THE E-4B CONFIGURATION GREATLY INCHEASES FORCE CONNECTIVITY, IMPROVES RELIABILITY AND PROVIDES NUCLEAR HARDENING.

SCICPE OF PROGRAM:							
BASIS FOR COST ESTIMATE:	PRIOR QTY CCST 1 124.3	FY-81 QTY CCST 1 135.3	FY-82 QIY CCST 1111.6	FY-83 QTY CCST	OUTYEAR QTY CDST	917	T 0 T A L QTY COST
DATA C3 EJ AIRCRAFT ADV. PROC		4.2 97.6 1 33.5	3.2 76.4 1 32.0			m	14.0 261.0 86.2 10.0
TUTAL	1 124.3	l	1 135.3 1 111.6		*****	3	371.2

INSTALLATION - CONTRACTOR LEAD TIME - 18 MONTHS METHOD OF IMPLEMENTATION:

## MODIFICATION OF AIRCREET FY-18 FR 1642M

FY-82 APPANDAIATION: ALACAAFT PAUCUREMENT, ALM FIRCE

MODIFICATION TITLE AND NOT AUTOMATIC DATA PROCESSING (ALF.)

MODELS OF AIRCRAFT AFFECTED: E-45

DESCRIPTION/JUSTIFICATION: TO IMPROVE THE E-4 SATTLE SIBER MANAGEMENT CARACLISTY; PASYING CRITICAL AND TIME SENSITIVE INFORMATION TO THE NATIONAL CPMPANCIANTHY! AND PROVING A CREDIBLE MEANS OF PROSECUTING THE SIDE MILL ACCOUNTISM THIS BY RESUGING THE MANDAL MANIFULATION OF SIDE DATA. THE ADD SYSTEM MILL CONSIST OF MIMI-COMPUTER, MASS STRANGE, (IPPLAY DEVICES, PRINTERS AND INTERFACES TO DUESDINGE LOUDINGING. FRUE E-44 ALCORAFT MILL BE MODIFIED.

AND INTERFACES TO DUESDINGLOBED IN FASELINE FECTIONS.

SCOPE OF DRIBAR.											
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METHOD OF IMPLEMENTATION: TUSTALLATION - CONTABOTOR

MUSICATION OF AIRCEAN BY-NO DENGERS

FY-82 APPRIDUITING ALNOWATE ON BUTHER ALK FOR

MODIFICATION TITLE AND NOT SINGLE CHANGE TRANSPORTER

MODELS OF ALRCHAFT AFFECTED: 6-4

ACTION ASSAGE DISSENTIATION CAPABILITY AND WILL BE FEFLEYED ON HOST SAFELLITES SUCH AS ASCS.

INT. SATELLITES. THE SCT WILL BE CAPABILITY AND WILL BE FEFLEYED ON HOST SAFELLITE AND NEAR-TERM UHE DUNGLINK AITH FAX-TIRM SAFINATION WITH A HIGH DEGREE OF SUPVIVABILITY. THE L-4H, THE MEST SURVIVABLE APNOR, MUST HAVE THE CAPABILITY IN INDICATE AND INTO THE SCT USING SITMER A LHE UPLINK OF AN SHE UPLINK. THE TASK INVOLVES DEVELDED BY INDICATED A COMMANDADINE MODEL THE TERMINAL THE TASK INVOLVES INTO A COMMANDADIN MODEL TO THE EXISTING AFSATOM TERMINAL. THE INTERPACTOR INTORATION INTO DESCAIPTION/JUSTIFICATION: THE SINGLE CHANNEL TRENSPONCE (SCT) PROVIDES AN ADDITIONAL EMERGENCY

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integrad and Paggs					: 1513			
2 CF					(S. FCF			۱۲ ۱۲
SCCF					4451	K118		TOTAL

METHOO OF IMPLEMENTATION: INSTALLATION - CONTRACTOR

#### MCCIFICATION OF AIRCRAFT FY-82 PRUGRAM

FY-32 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

CP.ASHWERTHY FUEL SYSTEM (INTERNAL), MN-65036A MCDIFICATION TITLE AND NO:

MODELS OF AIRCRAFT AFFECTED: CH-3E/HH-3E

DESCRIPTION/JUSTIFICATION: REQLIRED TO PREVENT POSTORASH FIRE IN SURVIVABLE ACCIDENTS AND THE RESULTANT LOSS OF LIFE AND FQUIPMENT. PRESENT TECHNOLOGY CAN PROVIDE FUEL SYSTEMS THAT ARE CAPABLE OF CONTAINING THE FUEL DURING SURVIVABLE MISHAPS. MOD WILL REPLACE THE PRESENT INTERNAL FUEL SYSTEM, AND MILL CONSIST OF FLEXIBLE FUEL LINES, SELF SEALING BREAKAWAY VALVES AND FITTINGS, CRASH RESISTANT FUEL CELLS AND FRANGIBLE MOUNTING HARDWARE, PERMITTING THE INTERNAL FUEL SYSTEM CEMPCRENTS TO SHIFT WITHOUT RUPTURING.

SCIPE OF PREGRAM:												
	PRI	SE SE	<u>ئ</u> ر ب	-81	<del>ک</del> ننا	-82	ŁΥ	-83	OUT	YEAR	101	AL
	QTY	QTY CGS1	ŲΤΥ	CCST	QIY	1800	¥10	IY COST GIY CUST GIY COST GIY CUST GIY COST	QTY	COST	CTY COST	COST
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	-4	•					46	46 6.9 37 5.6	37	5.6	84	13.1
BASIS FUR CEST ESTIMATE:												
SULABOUR	-	9									_	4
XIIS	•	•					46	46 6.3 37 5.6	3.7	5.6	83	11.9
DATA								4.				4.
SUPPORT EQUIP.								• 2				• 5
+ C + C +		. 4	1 1 1	\	! !	! ! !	177	46 6-0 37 5-6	7 2 7	9 5	78	13.1
<b>1</b>	-	•					7	٠ د	- )	•	5	1.01
METHOD OF IMPLEMENTATION: INSTALLATION - DEPCT/FIELD TEAM/FIELD	INSTAL	LATIC	30 - 4	FCT/F	3131	TE AW/F	TELC					

THOO OF IMPLEMENTATION: INSTALLATION - DEPOT/FIELO TEAM/FIELO Lead time - 18 months

MEDIFICATION OF AIRCRAFT FY-82 PRUGRAM

FY-32 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: CRASHWCRTHY FUEL SYSTEMS, MN-69037A

MODELS OF AIRCRAFT AFFECTED: HF/CF-538/C/F

DESCRIPTION/JUSTIFICATION: THIS MCDIFICATION WILL INCLUDE BREAK-AWAY FUEL LINES/FITTINGS, IMPACT/RUPTURE RESISTANT FUEL CELLS AND RERCUTING OF SOME WIRING TO PREVENT IGNITION JF FUFL SPILLS. THIS WAS A RECOMMENDATION OF THE ACCIDENT ECARD THAT INVESTIGATED 68-10927.

SCOPE OF PROGRAM: BASIS FOR COST ESTIMATE:	PRIOR QIY CCST	FY-81 FY-82 FY-83 QTY COST QTY CCST QTY COST 1 4.0 32 27.7	61 Y	FY-82 FY-83 OUTYEAR IY CCSI QIY COSI QIY COSI	64- 017 	-83 COST 	0UT) 0TY  15	OUTYEAR QIY COST	017 COST	A L COST 	
NENRECURRING NETS DATA TRAINER	7.		1	1 3.5 32 26.9 15 13.5 .5 .8	32	26.9	15	13.5	<b>4</b> &	43.9 .5	
TOTAL	7.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 4.0 32 27.7 15 13.5	32	27.7	15	13.5	1 8 7	45.9	

METHOD OF IMPLEMENTATION: INSTALLATION - DEPCT LEAD TIME - 15 MCNTHS

MODIFICATION OF AIRCEAFT FY-82 PRUSRAM

FY-32 APPRIPRIATION: AIRCRAFT PROCUREMENT, AIP FONCE

MODIFICATION TITLE AND NOT SEEK TALK

MODELS OF AIRCRAFT AFFLOTED: 0V-10

DESCRIPTION/JUSTIFICATION:

SCOPE OF PRISKAM:						
	PRIDA STY COST		FY-62 QTY C(51	FY-61 FY-62 FY-83 JTY CJST GTY CCST GTY COST	CUTYEAS QTY COST	T O T A L QTY COST
	- 4 - 1 - 1 - 1					4.01
BASIS FOR COST ESTIMATE:				. • 6	• •	• J
NONRECURE INS				1.5	7 7	1.5
KILS				.3	•	- M
TRAINER CHROSCH CARRO				1.2	1.2	1.2
SOFFICE TIPOTY	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	• • • • • • • • • • • • • • • • • • • •		
TOTAL				3.5	o.	12.4
TEGS O - MC 114 HATSM1 - MC11AIMBMS HOWI DO MONITON	TICTALLATI	TOOSO * NO				

METHOO OF IMPLEMENTATION: INSTALLATION - DEPOT LEAD TIME - 12 MONTHS

MUDDIFICATION DE AIRCRAFT FY-52 PROGRAM

FY-82 APPROPRIATION: AIRCRAFT PROCOREMENT, AIR FORCE

MODIFICATION TITLE AND NOT VINSON TAC SECURE VOICE, MN- 3646

MODELS OF AIRCRAFT AFFECTED: MULTI AV/ARC-164

DESCRIPTION/JUSTIFICATION: VINSON SECURE VUICE PROVIDES UN-LINE ENCRYPTION/DECRYPTION DF VHF/UHF

AMZEM HALF-DUBLEX RADIO FOR ALL CLASSIFICATION OF TEAFFIC. THE TSECKKY-58 IS DESIGNED FOR

OPERATION IN AIRCRAFT INSTRUMENT PANELS OF RADIO-CUNSOLE CONTROL PANELS, OR IT MAY BE LOCATED

IN EQUIPMENT RAYS AND OPERATED BY A REMOTE CONTROL UNIT (RCU). THIS MODIFICATION ENABLES THE

ANZARC-154 TO OPERATE IN THE 25 KHZ BASEBAND MODE WITH THE VINSON EQUIPMENT.

STUDE OF DEALESTANT												
	ď	PRIGR FY-81	j.	18.	FY	£ £ £	<u>۲</u>	- p 3	001	YEAR	1 0	TAL
	<b>≻ 1</b> ?	ATY COST ATY COST	V.T.Y	COST		CEST	≻ Fo	WIY CEST WIY COST WIY COST	φīχ	COST	0T Y	0TY COST
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	3125	3)25 4.1 4238 4.0	4238	<b>○• 5</b>			8687	8687 9.4 4000 5.0	0004	5.0	20000	22.5
BASIS FOR COST ESTIMATE:												
NONRECORRING	<b>4</b>	4										4
	3325	3.2	4233	ပ <b>ံ</b>			8687	8687 9.4 4300 5.0	4000	2.0	20000	21.6
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TOTAL	3)25	3)25 4.1 4233 4.0	4233	ڻ• • ن			8687	8687 9.4 4000 5.0	0004	5.0	20000	22.5
METHUD OF IMPLEMENTATION:	INSTA	INSTALLATION - FIELD	1 2	1 E L D								

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MCDIFICATION OF AINCRAFT FY-82 PROGRAM

FY-32 APPRUPRIATION: AIRCRAFT PRCCUREMENT, AIR FORCE

STANCARD CCMBINEC ALTITUDE RACAR ALTIMETER (CARA), MN-10611C MCDIFICATION TITLE AND NC:

MCDELS OF AIRCRAFT AFFECTED: MULTI

WILL REPLACE TWO EXISTING SYSTEMS ON C-13C AIRCRAFT, NECESSITATING WIRING CHANGES AND COSTS AS SHOWN, DURING POM). EXISTING SYSTEMS HAVE A LOW RELIABILITY AND HAVE HIGH LOGISTIC SUPPORT DESCRIPTION/JUSTIFICATION: REPLACE EXISTING RACAR ALTIMETER AN/APN-22, 424,-133, -150(V),-155,-159, -159, -167,-171(V),-194(V),-203(V), SRC-718, AWLS & C5A LARA) WITH A NEW SOLID STATE ALTIMETER. NEW ALTIMETER SYSTEM WILL MEET REQUIREMENTS OF ARING SPECIFICATION 791RCR-CARA-523 WITH A RELIABILITY GCAL GREATER THAN 2000 HOURS. FURTHER WITH THE EXCEPTION OF C-130 SERIES AIRCRAFT, IT WILL BE A DIRECT REPLACEMENT WITH NO CHANGE TO AIRCRAFT WIRING (ONE NEW SYSTEM

METHOD OF IMPLEMENTATION: INSTALLATION - CRC/INTERMEDIATE

LEAD TIME - 4C MONTHS

MCDIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

UPDATE RWR SIGNAL PRCCESSCR, MN-106138 MODIFICATION TITLE AND NO:

MODELS OF AIRCRAFT AFFECTED: MULTI

IPTION/JUSTIFICATION: MODIFICATION WILL REPLACE EXISTING PROGRAMMABLE READ CNLY MEMORY (PROM) DEVICES WITH REUSABLE ELECTRICALLY EFASEABLE READ CNLY MEMORY (EEROM) DEVICES WHICH WILL IMPROVE RELIABILITY, INCREASE THE PROCESSOR SPEED AND PROVIDE THE CAPABILITY TO PROGRAM THE SIGNAL PROCESSOR WHILE INSTALLED ON THE AIRCRAFT. REQUIRED FOR FIRST LINE AIRCRAFT TO HAVE THE CAPABILITY TO IDENTIFY AND LOCATE THE LATEST KNOWN ENEMY THREATS. DESCRIPTION/JUSTIFICATION:

•	
בור כאן אסודדון יוס	PROGRAM:
<u>.</u>	SC CPE OF PROGRAM

	PRI	108	F Y	18-	FY	-82	FΥ	-83	DUT	YEAR	TOT	AL
	QTY COST	COST	VT O	QTY COST	QTY	QTY COST QTY COST	Q17	COST	OTY	QTY COST	QTY	QTY COST
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			71C	7.7	1583	12.9	2118	770 7.7 1583 12.9 2118 17.4		6.9 864	6965	6.44
BASIS FOR COST ESTIMATE:												
NONRECURRING			15	1.8		•				•2	15	2.4
KITS			755	5.1	1583	12.3	2118	5.1 1583 12.3 2118 17.0 498	498	4-9	49 54	40.8
DATA				9.								9•
SUPPORT EQUIP.				• 5		•		•3		• 3		1.1
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TCTAL			110	7.7	1583	12.9	2118	770 7.7 1583 12.9 2118 17.4 498 6.9	<b>4</b> 98	6.9	6964	6.44

METHOD OF IMPLEMENTATION: INSTALLATION - CRG/INTERMEDIATE

LEAD TIME - 27 MONTHS

MCGIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-32 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: HF SINGLE SICE BANC RADIC, MN-1662CC

MCDELS OF AIRCRAFT AFFECTED: MULTI

DESCRIPTION/JUSTIFICATION: CURRENT RADICS DC NCT MEET THE 1980 REQUIREMENTS FOR CHANNEL SPACING, FREQUENCY ACCURACY AND STABILITY AND PIRKHILL COMPATIBILITY. THE ARC-123 AND AT-440 HAVE HIGH LOGISTICS SUPPORT COSTS (CLD UNRELIABLE TUBE TYPE EQUIPMENTS), LOW MEAN TIME BETWEEN DEMAND AND OBSOLETE DESIGN ON MANY SUB-ASSEMBLIES. THIS IS THE SECOND STEP IN THE HF MODERNIZATION PROGRAM. STANDARDIZATION OF HF RADICS WILL PROVIDE SUBSTANTIAL LOGISTICS COST REDUCTIONS.

SCCPE OF PRCGRAM:												
	PR	10R	¥.	-81	έÝ	-82	FY	-83	OUT	rear	101	\ \ \ \
	QTY	QTY COST	710	QTY CCST		QTY CUST	QTY	QTY CCST	QTY COST	COST	CTY	CTY COST
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	5	æ	257	257 10.3		578 12.8		505 13.9 2962 62.9	2962	65.9	4307	100.7
BASIS FOR COST ESTIMATE:												
NONRECURRING	70	œ				.7		€,		2.5	ις	4.6
KITS			152	8.2	578	11.C	505	12.3 2962	2962	50.6	4302	82.1
DATA				. 7		9.		9.		1.6		3.5
TRAINER				۳,		4.		€.		5.4		4.9
SUPPORT EQUIP.				4.		• 5		4.		2.8		4.1
	1		1				!!!!		1 1 1 1		1	
TOTAL	2	æ•	257	257 16.3 578 12.8 505 13.9 2962 62.9	578	12.8	505	13.9	2962	65.9	4301	1001

METHOD OF IMPLEMENTATION: INSTALLATION - ORG/FIELD
LEAD TIME - 12 MONTHS

MODIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-32 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: MOD OF EJECTICN SEATS, MA-2827CA

MUDELS OF AIPCRAFT AFFECTED: MULTI

IPTION/JUSTIFICATION: THE EJECTION SEATS ON 10 TYPES OF AIRCRAFT WILL BE MODIFIED TO ACCEPT AN IMPROVED RESTRAINT SYSTEM THAT WILL BE SIMPLE IN DESIGN, CAPABLE OF BEING DISASSEMBLEO AND REWORKED AT FIELD LEVEL, HAVE A MEANS OF POSITIVELY DISENGAGING ITSELF DURING BALLISTIC FIRING, BE EASILY CLOSED AND MANDALLY CPENED, BE INCAPABLE OF BEING LOCKED UNLESS THE PARACHUTE ARMING LANYARD KEY IS CONNECTED AND BE CAPABLE OF RETAINING AND RELEASING SHOULDER DE SCRIPTION/JUSTIFICATION:

SCIEPE OF PROGRAM:

	PRIOR FY-81 FY-82 FY-83 OUTYEAR QTY CCST QTY CCST QTY CCST	7-82 CCST	P. 7.	-83 CCST	OUTYEAR QTY COST	T 0 Y 10	T O T A L GTY COST
BASIS FOR COST ESTIMATE:			5912 4.7	4.7		5912	4.7
K ITS DATA			5912 4.7	4.7		5912	4.7
TOTAL		!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		; ; ; ;		* !
METHOD OF IMPLEMENTATION:	INSTALLATION - CRG/INTERMECIATE LEAD TIME - 6 MONTHS	IATE		•		21 66	7.4

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#### MCDIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPROPRIATION: AIRCRAFT PRCCUREMENT, AIF FCRCE

REPLACE PERISCOPIC SEXTANT MECHANICAL AVERAGER, MN-406508 MCDIFICATION TITLE AND NC:

MCDFLS OF AIRCRAFT AFFECTED: MULTI

THE PFCHANICAL AVERAGER IS RESPONSIBLE FOR 60% OF ALL PERISCOPIC SEXTANT REPLACEMENT PARTS REQUIRED FOR THE AVERAGER AND FITTING AND ADJUSTMENT DURING OVERHAUL.

REPLACEMENT PARTS FOR THE AVERAGER ARE CIFFICULT IC CBIAIN. THIS MODIFICATION WILL REPLACE
THE MECHANICAL AVERAGER WITH AN ELECTRONIC AVERAGER, WHICH WILL DOUBLE THE MEAN TIME BETWEEN
DEMAND (MTBD) FOR THE AVERAGER FROM 50C TO 1000 HOURS, AND VIRTUALLY ELIMINATE DEPOT REPAIR.
THIS MOD WILL ELIMINATE 1229 SPARE AVERAGERS AND 30C2 SPARE SEXTANTS FROM THE AIR FORCE
INVENTORY AND ANNUAL MAINTENANCE CCSTS FOR THE SEXTANT WILL BE REDUCED FROM \$3,206,799 TO DESCRIPTION/JUSTIFICATION:

SC CPE DF PROGRAM:												
	PRIC	ж Ж	÷	-81	F	-82	F	-83	001	YEAR	1 0	TAL
	GTY COST QTY COST	180	QTY	COST	QIY	COST	Q T.Y	QTY COST QTY COST QTY COST	QTV	COST	CTY	CTY COST
	!!!	1	1	1	!	1 1	1	1	1		1 1 1	1 1 1 1
					2400	240C 2.C 3000 2.6	3000	2.6			5400	4.6
BASIS FUR COST ESTIMATE:												
NCNPECURE ING						*						*
KITS					2400	1.9	3000	2400 1.9 3000 2.6			5400	4.5
PATA						• 1						
	1		!!!!!		!		1					!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
TCTAI					2400	2.0	3000	2400 2.0 3000 2.6			6400	4.4

METHOD OF IMPLEMENTATION: INSTALLATION - CRG/INTERMEDIATE
LEAD TIME - 18 MCNTHS

MCDIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MUDIFICATION TITLE AND NO: UNFCRESEEN SAFETY MCDIFICATIONS, MN-99999A

MCDELS OF AIRCRAFT AFFECTED: MULTI-AIRCRAFT

IPTIUN/JUSTIFICATION: THERE ARE SAFETY MCD REQUIREMENTS THAT DEVELCP AFTER THE BUDGET IS PREPARED EACH YEAR FOR WHICH THERE IS NO PROGRAM AND, THEREFORE, NO CAPABILITY TO INITIATE WITHOUT REPROGRAMMING. THE FOLLOW-ON CCST OF A SPECIFIC MCC APPLICABLE TO A SUBSEQUENT FISCAL YEAR WOULD BE IDENTIFIED TO THE APPLICABLE WEAPON SYSTEM LINE AND GIVEN A TIMELY REVIEW. DESCRIPTION/JUSTIFICATION:

	TAL	QTY COST		9.5		9.5		9.5
	1 0	710					1 1	
	rear	CTY COST		5.7		5.7		5.1
	OUT	CTY	!					
		QTY COST	1	1.9		1.9		1.9
	F Y-83	ΔIX	-					
	-82	COST	+ +	1.9		6.1		1.9
	FY-82	ÇIY	1				1 1 1 1	
	FY-81	QTY CCSI GTY COST	1					
	FΥ	Q 1 Y	 				1	
	PRIOR	OTY CCST	1 1 1 1 1 1					
	PR	<b>01</b>	!					
					BASIS FOR COST ESTIMATE:			
SCCPE OF PROGRAM:					ST ES			
PRO					00 ¥			
E OF					S FO	RAFI		_
SCCP					BASI	AIRCRAFI		TOTAL

MODIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: CLASSIFIED PROJECTS

MODELS OF AIRCRAFT AFFECTED: MULTI-AIRCRAFT

DESCRIPTION/JUSTIFICATION: THESE FUNDS ARE REQLIRED TO PRCVIDE FCR THE MCDIFICATION OF VARIOUS AIRCRAFT AND AIRBGRNE SYSTEMS USED IN CLASSIFIED MISSIONS, WHICH BECAUSE OF THEIR SENSITIVE NATURE, REQUIRE THE APPLICATION OF SPECIAL MANAGEMENT AND SECURITY SAFEGUARDS.

	TAL	QTY COST	1	549.4		549.4	!!!!!!!!	549.4
	1 0	QTY	1					
	YEAR	OTY COST		232.4		232.4		232.4
	OUT	017	1 1 F				1	
	-83	QTY COST	-	72.8		72.8		72.8
	F	QTY	1					
	-82	QTY CCST		51.0		51.0		51.0
	Ϋ́	ΔTΥ	ŧ				-	
	-81	. QTY COST QT	1	100.6		100.6	11111	100.6
	¥ H	710	1				1	
	IOR	QTY CCST Q	1	95.6		95.6		95.6
	αd	QIY	1 1				1	
SCOPE OF PROGRAM:					BASIS FOR COST ESHIMATE:	CLASSIFIED		TOTAL

#### MODIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-82 APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: CIVIL RESERVE AIR FLEET (CRAF)

MODELS OF AIRCRAFT AFFECTED: WIDE BODIED CIVIL A/C (B-747/DC-10/L-1011)

RENTLY AVAILABLE CRAF STACE III CARGO CAPABILITY, IS DEFICIENT IS SATISFYING THE TIME-PHASED DEPLOY-MENT REQUIREMENTS OF A MAJOR CONTINGENCY, ADDITIONALLY, MANY OF THE CURRENT CRAF CARGO AIRCRAFT ARE 20 YEARS OLD, OR OLDER, AND ARE BEING PHASED OUT OF THE COMMERCIAL FLEET. TO IMPROVE OUR STRATEGIC AIRLIFT CAPABILITY, THE AIR FORCE DEVELOPED A PROGRAM FOR THE ADDITION OF MILITARY CARGO CONVERTIBILITY FEATURES DURING INITIAL FABRICATION OF JIVIL PASSENGER AIRCRAFT. THE MODIFICATIONS INCLUDE ADDITION DESCRIPTION/JUSTIFICATION: EXISTING MILITARY STRATEGIC CARGO AIRLIFT CAPABILITY, AUGMENTED BY CUR-TION OF A NOSE VISOR OR SIDE-LOADING CARGO ACCESS DOOR AND A STRENGTHENED FLOOR, KEMOVABLE CARGO HANDLING KITS, ROLLERS AND RAILS ARE REQUIRED FOR EACH AIRCRAFT TO INSURE COMPATIBILITY WITH THE MILITARY 463L CARGO HANDLING SYSTEM. THE PROGRAM ALSO INCLUDES COMPENSATION (BASED ON A 16-YEAR SERVICE LIFE) FOR THE INCREASED OPERATING COSTS RESULTING FROM INCREASED NET OPERATING WEIGHT.

SCOPE OF PROGRAM:												
	PR	IGR	Ϋ́	-81	¥	-82	F.	-83		<b>LYEA</b> R	0	r A L
	QIX	QTY COST	Q 1.4	QTY COST	Q17	QTY COST	ΩTΥ	UTY CCST		QTY COST	QT Y	QTY COST
	-	1	1	1 1		!!!!	1			1		
	M	3 53.6	m	3 35.8	9	8 81.8	7	7 108.9		21 345.8	0,	635.9
BASIS FOR COST ESTIMATE:												
747					7	41.0	2	45.0	4	102.7	8	188.7
-10	6	3 53.6 3 39.8	٣	36.8	K)	3 37.5	4	54.4	<b>1</b> C	1001	23	346.0
1-1011					-	6.3	-	6.5	_	9.5 7 82.4	6	101.2
					1 + 1	1 1 1 1	1		1			
TOTAL	~	3 53.6 3 39.8	3	39.8	9	87.8	7	6 87.8 7 108.9 21 345.8	21	345.8	40	635.9

METHOD OF IMPLEMENTATION: INSTALLATION - CONTRACTOR LEAD TIME - 18 MONTHS

MCCIFICATION OF AIRCRAFT FY-82 PROGRAM

FY-32 APPRUPRIATION: AIRCRAFT PRECUREMENT, AIR FURCE

MUDIFICATION TITLE AND NUT TR-1

MUDELS OF AIRCRAFT AFFECTED: TR-1

IMPLEMENTS ARCRAFT WEIGHT REDUCTION PROGRAM, AVIONICS UPDATE, COCKPIT INSTRUMENTS UPGRADE, AND PROVIDES DESCRIPTION/JUSTIFICATION:

0 T A L 7 COST 46 33.3	46 33.3
T O T A L QTY COST 	46
FY-83 OUTYEAR UTY CCST QTY COST	9 7.3 37 26.0
001 QTY 37	37
FY-82 UTY CCST	7.3 37 26.0
FY- UTY 9	6
FY-82 GTY CC51	           
FY-81 Q1Y CCS1	
PRICE FY-81 FY-82 QIY CCSI QIY CCSI GIY CCS1	
SCCPE OF PRGSRAM:	BASIS FUR COST ESTIMATE: KITS TOTAL

#### MISSILE PROCUREMENT, AIR FORCE

parts and accessories therefore, ground handling equipment, and training devices; expansion of public and private plants, government-owned equipment and installation thereof in such plants, erection of structures, and acquisition of land without regard to Section 9774 of Title 10, United States Code, for the foregoing purposes, and such lands and interests therein, may be amended; reserve plant and government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes including rents and transportation of things; 84, 274,600 to remain available for obligation until September 30, 1984 (5 U.S.C. 3109; 10 U.S.C. 2271-79, 2353, 2386, 2663, 2672, 2672a, 8012, 9501-02, 9595, 9531-32, 9741-42; 31 U.S.C. 649c, 718; 50 U.S.C. 451, 453, 455; Department of Defense Appropriation Act, 1981 additional legislation to be proposed. acquired, and construction prosecuted thereon prior to the approval of title as required by Section 355, Revised Statutes, as For construction, procurement, and modification of missiles, rockets, spacecraft and related equipment, including spare

. dent.	fication code 57-3020-0-1-051	Budget	Ω. 60	its for igramed)		Obligations	
1		1980 actual	1981 est	1982 est	1980 BCLUB)	1981 est.	1982 est.
ā	Doogram by activities						
	80 ( 188 L O 198 ) ( 80 )	108,500	141,990	106,600	176,280	90,729	131, 434
	Other missiles	607,090	916,900	1,431,800	531,652	679,612	1,128,321
	Modification of	52,200	104,552	96, 800	53, 738	76,239	90, 706
	45 JODESTON BOOK BOOK TOOD TO TOO THE	205,600	146,091	200,100	86,524	119,659	171,708
		- 1 - 1 - 1 - 1 - 1		0 1 1 1 1 1 1	111111111	7-0'800'-	)   D '   1   1   1   1   1   1   1   1   1
	Total direct Relabinessia program (total)	2, 159, 231	3,140,917	4,274,600	1,982,968	2, 535, 151 71, <b>8</b> 49	3,734,086
0	Total	2,250,506	3,235,398	4,366,600	2,062,600	2,607,000	3,795,720
	CHARGETT CO CO COCTOON ANDS	031 13		0	0.0	, C	
		707 707	000,000	35, 500	0.00°.	-56,500	200, 300
2 4	のないとこのの 一番に乗り合うと		- C	ייייייייייייייייייייייייייייייייייייי	0.00		ביי ליי ביי ליי
. 7					-11,173		
	available, start of ye						
2,40	prior year budget plan			-	-588,951	-694,982	-1,323,380
	Reprogressing from or to prior year budget pien	-88,324					
		27,400			27.400		
	Unobligated belence avallable, end of year				694,982	1,323,380	1.894.260
25 00	Quisca!	45,			-		
39 00		2,143,531	3,140,917	4,274,600	2, 143, 531	3,140,917	4,274,600
	DCQDet BLtton (tx	*	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			, , , , , , , , , , , , , , , , , , ,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
40 00	C	2, 160, 385	3,140,917	4,274,600	2,160,385	3,140,917	4,274,600
		-15,700			-15,700		
4 4 00 00 00 00 00 00 00 00 00 00 00 00	institutional to other accounts Institutional from other accounts	9,200			8,200		
		0 110 131	1	007 600	101010	1	
200		31,400	 9 . 1 .	1 .	31,400	9	7, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
2,.00	Relation of obligations to outlays duligations incurred, net		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	976,049	2,512,519	3,703,720
72 40	Obligated balance, start of year Obligated balance, end of year				1,639,046 -1,809,031	1,809,031	2,247,550
77 00 78 00	Adjustance to explone monocounts Adjustance to coexploned monocounts				15,345		
0	\$ \ 				1.010.237	2 074 000	2 805 000
	7 60					)	,

Ą	Missile Procurement, Air Force			10 JAN 01
	Object Classification (in thousands of dollars)		3 1 1 5 4 3 4 3 4	,
0	1980 actual   1981 est   1982 est   1982 est   1980 actual   1981 est   1982 est	980 actual	1980 actual 1981 est	1982 est.
	i			
	lat ons:	1.982.968	2,535,151	3,734,086
0.0				
		1,982,968	2, 535, 151	3, 734, 086
C 66		M H H H H H	# # # # # # #	# # # # #
	Sections and the sections	79,632	71.649	61,634
0.0	Equipment		11 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	*****
89.	Total obligations	2,062,600	2,607,000	3,795,720

Procurement
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- 0 0 - E	Missile Procurement, Air Force	it, Air Force				44.
pue mengony	Program and Financing (in thousands of dollars)	thousands o	f dollars)		1978 Fig.	10 MAC C
dentification gode   57-3020-0-1-051	Budge	Budget plan (emounts for procurement actions programed)	nts for ogramed)	/ 	Obligations	
	1980 actual	1981 est.	1982 est.	1980 Botum	1981 ast	1982
Program by sotivities: Direct.			1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
2. Other Bission				000		
3. Modification of togething mine)				71,005		
A. Spanes and repair parts				11,555		
d. Other support				3,508		
10.00 Total	, , , , , , , , , , , , , , , , , , , ,	- 1 - 1 - 1 - 1 - 1	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	797,267		
i				202, 157		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
11.00 Adjustant to 00 federal find one						
19.00 Adjustment to by trust fund orders				-719		
	•			1,494		
Unobligated balance available, start of year:				-2,988		
21.40 Reprogrening from of prior year budget plans	:			-272.468		
Unobligated balance t	- /2, 524					
25 CC Unobligated balance larging	11,600			11.600		-
	45, 224			45, 224		
40.00 Budget authority (moorgonistion)		,			- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
	-15, 700			-15,700		

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15 JAN 81

	Program and Financing (in thousands of dollars	inmenting (in	thousands of	dollers)	,	1979 Fiscal year program	eer progrem
1 dent	57-3020-0-1-051	Budge.	Budget plan (amounts for procurement actions programed	its for ogramed)		Obligations	1
;		1980 actual	1981 est.	1982 est.	1980 Botus	1981 ast.	1982 est
Q.	POCOLTAIN DE POCETAINS						
					5,727	1,926	
					96, 265	43,324	
	Modification of				7,550	3,786	
	4. Grands and rapain parts				15,626	7,156	
	diner support	. !			/6,444	36, 498	
	* ) 0 2 - T - 0 + 2   - 0	1	i f i i i	1	618 106	200 00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	6				0,00	100	
			. 1 . 1 . 1 . 1	- 1 - 1 - 1 - 1 - 1 - 1	/ 30 ' 8	B 1	. 1
10.00	Total				211,439	93,481	
	Financing: Odfastting collections from:						
11.00	Adjustment to by federal fund orders				15,571		
13.00	Adjustment to by trust fund orders				-11,618		
14.00	Adjustment to non-federal sources				ΨĢ		
17.00	Recovery of prior year obligations, obligan				-8,185		
21.40	For completion of prior year budget pleas				-316,483	-93,481	
21.40		-15,800					
23.40	Unobligated belence transferred to other accounts	15,800			15,800		
24.40	Unobligated balance available, and of year				93,481		
		,		4 4 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1		
40.00	Budget authority (appropriation)						

Air Force
Procurement,
Missile

15 JAN 81

in on I E	16 Procurerient	Missile Procurement, Air Force				
	Program and Financing (in thousands of dollars)	thousands of	dollars)		1980 Fiscal year	ear program
37.3020.0-1-031	Budget	Budget plan (amounts for procurement actions programed)	ts for gramed)		Obligations	3 6 1 1 1 1 1 1
	1980 actual	1981 est.	1982 est	1980 octuel	1981 est	1982 est.
Program by activities:						
Direct:   Dellistic Bissiles   Dellistic Bissiles	108,500			364,382	160,147	82,561 4 708
4. Modification of inservice missiles 4. Speres and repair parts 4. Change support	52,200 95,600 1,295,841			34, 833 67, 300 1, 004, 573	20,088	62,896
6 5	2,159,231	t		1,579,199	13,416	156,466
10.00 Total	2,250,505	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		1,649, '24	434,982	166,519
Financing: Offsetting collections from: 11.00 Federal funds 13.00 Trust funds	-61,762 -29,494			-61,762 -29,494 -18		
14 00 Non-federal sources 21.40 Unobiligated balance available, start of year 24.40 Unobiligated balance available, end of year 24.40 Unobiligated balance available, end of year	0	1	1	601,301	166,519	-166,519
39.00 Budget Buthority	2,159,231	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	- 1 - 1 - 1 - 1 - 1	2,159,231		. 1
Budget authority: 40.00 Appropriation 41.00 Transferred to other accounts 42.00 Transferred from other accounts	2,160,385 -40,754 8,200			2,160,385		1
	2, 127, 831			2,127,831		

Force	
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Procurement,	
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:	Dra Entropora	Program and Financing (in thousands of dollars)	thousands of	dollars)	1	1981 Fiscal year propram	ear proprem
000000000000000000000000000000000000000		Budge	Budget plan (amounts for procurement actions programed)	its for gramed)		Obligations	1 1 3 1 4 4 4 4 1
		1980 Botus!	1981 est.	1982 est.	1980 sctus)	1981 est	1982 est.
. 6.	Program by activities:	1					
•	Direct		000			88,703	45,437
	1. Dellist (0 3 se) les		0.00			476,141	257,480
	2. Other missiles		200			59, 594	31,857
			740,000			92,315	46.749
	4. Spares and repair parts		140,091			1,304,142	449,822
	8. Other support		100	· 1 · 1 · 1 · 1 · 1 · 1			
			3,140,917			2,020,895	831,345
	Between direct Ctotol)		94,481			57,642	19,296
				1 1 1 1 1 1 1 1 1 1 1			
10.00	Total		3,235,398			2,0/8,53/	600, 64
	Financing:					4	
11.00	Foders funds		-56, 500			-37,48	
13.00	おびこう かきつした		0.04,75			000	
14.00			200				-1,156,861
21.40	Unobligated balance available, start of year					1,156,861	306,220
24 . 40	Unobligated belignee everigable, and of the		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1			
40.00	Budget authority (appropriation)		3,140,917			3,140,817	

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¥	(suallop to spendant ut) originals of dollars)	thousands of	dollers)		1982 Fiscal year proper	
	tan di	Budget plan (amounts for	ts +07		Obligations	
identification code 57-3020-0-1-05'	Drocurement   1980 Botus!	procurement actions programmers	1982 est.	1980 ectual	1981 684	1982 est
			; ; ; ; ; ; ; ; ; ;			
Program by activities:			108 600			85,908
80)   88   E   C   F   F   C   C   C   C   C   C   C			1,431,800			786, 200
801 - 80 E LOTH			96, 800			116,74
3. Modification of inservice alselles			200, 100			1,699,199
A. ODEROS BAC TERRET DESTA		. (	2,439,300	. l . l . l . l . l . l	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 744 975
di diner supporti	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		4,274,600			34,285
Total direct Reinbureable program (total)	1 ! ! ! ! ! ! !		92,000	. 1	. I	2,778,560
10.00 Total						
Financing:     Offsetting collections from:     Federal funds 13.00			-56,500 -35,000 -500 -500 -500			-56,500 -35,000 -500 1,588,040 4,274,600
An on Budget authority (appropriation)						

(In Thousands of Dollars)

Program Requirements - FY 1983 - \$7,016,543

Program Requirements - FY 1982 - 4,274,600

Program Requirements - FY 1981 - 3,140,917

Program Requirements - FY 1980 - 2,159,231

## PURPOSE AND SCOPE OF APPROPRIATION

This appropriation provides for procurement, installation, and checkout of strategic ballistic missiles and other missiles, modification of in-service missiles, and initial and replenishment spares and repair parts for missile systems. It also provides for operational space systems, boosters, payloads, drones, associated ground support equipment, nonrecurring maintenance of industrial facilities, machine tool modernization, and special programs support.

- 1. Ballistic Missiles Provides for procurement of the higher yield MK-12A re-entry vehicle to replace the MK-12 re-entry vehicle on 300 MINUTEMAN III missiles and accommodations for ALCS, AFSATCOM, 616A, and SACDIN equipment in MINUTEMAN and TITAN launch control centers.
- training equipment. Procurement of the AIM-7F/M SPARROW and the AIM-9L/M SIDEWINDER, continues in FY 1982 and FY 1983. Provides for target drones, for missiles testing and aircrew training. FY 1982 initiates procurement of the AGM-65D, MAVERICK, and Other Missiles - Provides for procurement of Air and Ground Launched Cruise Missiles, peculiar support equipment, and requests authorization in FY 1983 to initiate procurement of AGM-88 HARM air-to-ground missile and Tactical Drones.
- Modification on In-Service Missiles Provides modification of missiles to improve reliability and safety, extend service life, and to incorporate operational improvements based on in-service use.
- Spares and Repair Parts -Provides for initial and replenishment spare and repair parts for ballistic missiles, other missiles, remotely piloted vehicles (RPV), peculiar support equipment, replacement equipment, provisioning documentation, and spares for the modification programs.
- 5. Other Support Provides for special program activities, modernization of government-owned production facilities, procurement of launch vehicles, spacecraft, and peculiar support equipment for operational space systems.

### SUMMARY OF REQUIREMENTS

	FY 1980 Estimate	(In Thousands of Dollars) Fy 1981 Estimate	FY 1982 Estimate
Ballistic missiles	\$ 108,500	\$ 141,990	\$ 106,600
Other missiles	060,090	916, 900	1,431,800
Modification of in-service missiles	52,200	104,552	96,800
Spares and repair parts	95,600	146,091	200,100
Other support	1,295,841	1,831,384	2,439,300
TOTAL DIRECT PROGRAM	2,159,231	3,140,917	4,274,600
Reimbursable program	42,857	61,223	
TOTAL PROGRAM REQUIREMENTS (CURRENT)	2,250,505	3,235,398	4,366,600
Less: Portion of program to be obligated			
In subsequent fiscal years	601,501	1,156,861	1,588,040
Plus: Obligations incurred against prior			
year program funds	413,596	528,463	1,017,160
TOTAL OBLIGATIONS	\$2,062,600	\$2,607,000	3,795,720

# SUMMARY OF PROGRAM REQUIREMENTS

(In Thousands of Dollars)

	FY 1983 Estimate
Ballistic missiles	1,766,146
Other missiles	2,054,993
Modification of in-service missiles	121,134
Spares and repair parts	254,311
Other Support	2,819,959
TOTAL DIRECT PROGRAM	7,016,543

(In Thousands of Dollars)

Program Requirement - FY 1983 - \$1,766,146

Program Requirement - FY 1982 - 106,600

Program Requirement - FY 1981 - 141,990

Program Requirement - FY 1980 - 178,500

### PART I - PURPOSE AND SCOPE

support equipment in direct support of operational ballistic missiles including ground guidance and control systems, equip-This activity also provides for the modernization of the ballistic missile launch and launch control facilities and the integration of new equipment into the launch control center. It includes hardware, training equipment, data and site activaground equipment is used to transport, assemble and disassemble, maintain, checkout, launch, and guide ballistic missiles. This activity provides for complete operational intercontinental ballistic missiles, including the airframe structure and struments and auxiliary equipment installed in the missiles, and penetration aids. It also provides for peculiar ground installed power units, communications guidance and control equipment, re-entry vehicle (excluding nuclear payloads), in-The pecialized training equipment includes system trainers for proficiency training of maintenance and operator crews. ment to maintain the operational status of the system, specialized ground handling equipment, and system trainers. tion effort required to modernize ballistic missile facilities.

# PART II - JUSTIFICATION OF FUNDS REQUESTED

quest completes the ICBM C3 Integration. There are no funds for MK-12A procurement. It also funds the initial procurement center accommodations for installation of Air Force Satellite Communications system, Strategic Air Command Digital Network, The FY 83 rein underground silos to survive an attack by the enemy and retain a capability to perform the assigned mission. MINUTEMAN IIIs. The higher yield of the MK-12A will provide MINUTEMAN with an improved capability against targets designated by the the MINUTEMAN missile is a three stage solid propellant intercontinental Ballistic Missile (ICBM), hardened and dispersed request provides funds to complete procurement of the MK-12A re-entry vehicle as a replace for the MK-12 on 300 MINUTEMAN Single Integrated Operational Plan. Funds are also included for the Air Launch Control System (ALCS) Phase III on 200 MINUTEMAN III missiles. Under ICBM C3 Integration, procurement will be continued for MINUTEMAN and TITAN launch control Il carries one re-entry vehicle and has the capability to carry chaff and penetration aids to defeat area type defenses. MINUTEMAN III has a Post Boost Vehicle for the deployment of two or three MK-12 re-entry vehicles and chaff. 616A equipment. These added capabilities will increase the reliability of emergency war order reception. (RDT&E PE 11213F, 11215F, 64312F) of nine MX missiles.

The following tabulation shows the composition of ballistic missile program requirement:

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	FY 1980	FY 1981	FY 1982	FY 1983
Weapon System Cost	\$ 92,000	\$ 89,416	\$ 38,945	\$1,716,856
Advance Procurement (PY-)	-9,700	-4,800	-3,644	
Current Year Program	82,300	84,616	35,301	
Advance Procurement (CY +)	4,800	3,644		
WEAPON SYSTEM TOTAL	87,100	88,260	35,301	1,716,856
(Procurement Quantity)				
ICBM C3 Integration	21,400	53,730	71,260	49,290
TOTAL BUDGET ACTIVITY	\$108,500	\$141,990	\$106,600	\$1,766,146

AUTIVITY: 2. Other Missiles

(In Thousands of Dollars)

Program Requirements - FY 1983 - \$2,054,993

Program Requirements - FY 1982 - \$1,431,800

Program Requirements - FY 1981 - \$ 916,930

Program Requirements - FY 1980 - \$ 607,090

### PART I - PURPOSE AND SCOPE

This activity provides funds for the weapon system cost for procurement of strategic air-to-ground and ground-to-ground missiles. The system cost includes flyaway costs (air-trame, propulsion equipment, electronics and armament) peculiar support equipment (PSE), system peculiar training equipment and publications and technical data.

# PART 11- JUSTIFICATION OF FUNDS REQUESTED

Ground Lannand Cruise Missile (GLCM), the SPARROW and SIDEWINDER air-to-air tactical missiles, Maverick and HARM air-to-ground missiles, RAPIER air base defense missiles, and target drones. Descriptions and justification for the requests follow: the FY 1942 budget estimate includes requests for funds for the procurement of the Air Launched Cruise Missile (ALCM), the

B-52G Symbor. The missible is internally guided by an inertial navigation system more additional target coverage and the ALCM will expand the lethal footprint of penetrating strategic bomber forces by providing additional target coverage and require the lethal filter and by stressing enemy defenses. FY %2 funds will produce 440 missiles and support equipment. The FY 1983 request is also for 440 missiles. (RDT&E PE645/1F, [1122F) The missile is internally guided by an inertial navigation system which is updated by terrain contour matching. ACM-858, ALCM - The ALCM is a small, long range, accurate, nuclear armed, air-to-ground cruise missile planned for use on

for theater forces and release Quick Reaction Alert aircraft to carticipate in the conventional role. The cruise missile will sombine with command, control, communication, and launch control hardware software to comprise the weapon system. FY 1982 funds will cover procurement of 54 missiles and support equipment. The FY 1963 request is for 120 missiles. (RDT&E PE643A2F, 2731AF) BGM-109 GLCM -The GLCM is a small, long range, accurate, ground cruise missile which will provide increased firepower

continuous wave or pulse Appler. The AIM-2M was developed to provide for defense against enemy aircraft and to maintain air superiority. The funds requested for FY 1982 will procure 1060 missiles. The request for FY 1983 is for 1430 missiles. (RDT&E AIM-IM SPARROW - The Sparrow is a rocket propelled air-to-air missile guided by a solid state radar homing device with dual mode

Designed for visual attack, the SIDEWINDER has an infrared seeker with solid electronics, an active optical fuze, and an annular blast fragmentation warhead, all combining to result in increased lethality. The funds requested for FY 1982 will procure 480 The FY 83 request AIM-9M SIDEWINDER - The SIDEWINDER is designed for close-in "dogfight" combat against highly maneuverable fighter aircraft. blast fragmentation warhead, all combining to result in increased lethality. The funds requested for FY 1982 improved "M" versions of the missile, featuring improved guidance and control and reduced smoke rocket motor. is for 1920 missiles (RDT&E PE27161F)

AGM-650 MAVERICK - The AGM-65D version of the MAVERICK missile incorporates Imaging Infrared (IR), using thermal detection technology to provide an effective 24 hour day/night/adverse weather weapon. The FY 1982 request will procure the first 490 missiles. (RDT&E PE 64608F, 27313F)

The funds requested for FY 1982 will provide for the continued procurement of full scale and sub-scale maneuvering target Target Drones - Target Drones are remotely piloted vehicles which are used to simulate subsonic and supersonic enemy aircraft. They are used to develop air-to-air missile tactics, train aircrews, and to test and evaluate aircraft and missile weapon sys-The FY 1983 request continues procurement to include the HAHST. (RDT&E, 64211F, PE 35116F)

HARM is an air-to-surface anti-radiation missile designed to damage or supress radar-directed air defense system. Advanced feature include moderate size and weight, high speed, high accuracy, high sensitivity, wideband frequency coverage in a single seeker, long stand off range AGM-88A HARM - The

There are no procurement funds requested to FY 1982. The FY 1983 authorization requested will procure the first 286 missiles for the Air Force. (RDT&E PE 27162F)

RAPIER - A sh rr range, low level, all weather, surface to air defense missile system. It is produced in the United Kingdom (UK) and will be used to defend air bases in the UK. The FY 1982 request will continue the procurement started in FY 1981. FY 1983 continues procurement of the system. (RDT&E PE 27315F)

MRASM - A medium range all weather air to surface missile to attack heavily defended high value targets. There are no procurement funds requested in FY 1982. The FY 1983 authorization request will start the production effort. (RDTSE PE64614F)

rem. It will carry a radar . er for target acquisition and a fragmentary warhead to damage/destroy enemy air defense systems. It will be ground launched and will operate autonomously, requiring no data link for command and control. There are no procurement funds requested in FY 1982. The FY 1983 authorization requested will start the production effort. (RDT&E PE64746F) Tactical Drones - A small expendable unmanred aircrift named the LOCUST will be used as a low cost air deferse suppression sys-

DEPUTY CHIEF OF STAFF RESEARCH DEV AND ACQUISITION (A--ETC F/8 9/1)
DEPARTMENT OF THE AIR FORCE JUSTIFICATION OF ESTIMATES FOR FISC--ETC(U)
JAN 81
RDXM-AC-82-3 AD-A099 029 UNCLASSIFIED 3 0 4 AD 4129

The following table summarizes Other Missiles requirements:

		(In Thousands of Dollars)	of Dollars)	
Weapon System	FY 1980	FY 1981	FY 1982	FY 1983
Air Launched Cruise Missile (ALCM) Ground Launched Cruise Missile (GLCM)	\$365,380 8,200	\$551,688 89,389	\$ 595,387 331,763	\$ 597,958 470,609 7.168
AIM-7F/M Sparrow AIM-9L/M Sidewinder	125,110 86,800	139,900 44,074	144,411 53,713	173,497
AGM-b5A Maverick AGM-65D Maverick (IR) AGM-88A Harm	0,100		199,979	349,944
Rapier Target Drones Tactical Drones	16,500	90,000 1,849	85,974 20,573	127, 987 61, 260 25, 741
TOTAL	\$607,090	\$916,900	\$1,431,800	\$2 054,993

ACTIVITY: 3. Modification of In-service Missiles

(In Thousands of Dollars)

Program Requirements - FY 1983 - \$121,134

Program Requirements - FY 1982 - \$ 96,800

Program Requirements - FY 1981 - \$104,552

Program Requirements - FY 1980 - \$ 52,200

### PART I - PURPOSE AND SCOPE

This activity provides for modification of missile systems and drones, direct ground support equipment, missile training equipments of these equipments. These costs include modification kits, revised handbooks, and engineering effort. These programs are designed to improve reliability, enhance performance, and increase maintainability by incorporating approved modifications resulting from technical advances, service use, and continuing test programs

# PART II - JUSTIFICATION OF FUNDS REQUESTED

and an update modification to convert AIM-7F Sparrow missiles to the production line configuration. Advances in technology and long retention necessitate the modification of in-service missile system to enable the strategic, tactical, and support forces to maintain superiority over hostile forces. The modification program was reviewed to determine the priority of essential mis-The FY 1982 modification program consists of missile systems Class IV modifications which are necessary for safety impro-The modification program was reviewed to determine the priority of essential misvements, extension of service life, to incorporate operational improvements after a missile has been placed in the inventory, sion requirements for inclusion in the FY 1982 Budget Request.

bility, maintainability, and extend service life of the AGM-45 Shrike, AIM-4 Falcon, LGM-25 TITAN, LGM-30 MINUTEMAN, and the Emergency Rocket Communications Systems, initiate modifications Class IV Modification (FY 1982 \$82,663, FY 1983 \$92,128) The FY 1982 program will provide for modifications to improve reliato the BQM-34 Target Drone, and update modifications to the Ground Launched Cruise Missile (GLCM) as it enters the operational

AIM-7F Sparrow Update (FY 1982 \$14,137, FY 1983 \$19,906) This program provides for the correction of deficiencies detected during follow-on operational test and evaluation.

GLCM (FY 1982 -0-, FY 1983 \$9,100) This program provides for the correction of deficiencies revealed during operational test and initial use.

The following table summarizes modification update requirements:

REQUIREMENT	FY 1980	(In Thousar	(In Thousands of Dollars)	FY 1983
Class IV Modifications (Includes NFIP)	\$41,487	\$ 72,635	\$ 82,663	\$ 92,128
CIM-10 BOMARC  LGM-30 F/G MINUTEMAN II/III	1,013	76 76		
Update:		\7, t <sub>1</sub>		
AIM-7E Sparrow GLCM	9,700	7,191	14,137	19,906
TOTAL	\$52,200	\$104,552	\$96,800	9,100 \$121,134

ACTIVITY: 4. Spares and Repair Parts

(In Thousands of Dollars)

Program Requirements - FY 1983 - \$254,311

Program Requirements - FY 1982 - \$200,100

Program Requirements - FY 1981 - \$146,091

Program Requirements - FY 1980 - \$95,600

#### PART I - PURPOSE AND SCOPE

missiles, target drones, peculiar support equipment, training equipment, replacement equipment, provisioning documentation, and This activity provides for procurement of initial and replenishment spares and repair parts for ballistic missiles, other spares for modification programs.

# PART II - JUSTIFICATION OF FUNDS REQUESTED

quired for the continued support of missiles, drones and related support equipment maintained in the operational inventory. The FY 1982/83 requirements for spares and repair parts were developed by detailed provisioning actions which consider operational deployment of the end item, usage rate trends and, for time-change items, the service life of the weapon system. The funds for FY 1982 and FY 1983 will provide for the procurement of initial spares, replacement equipment, and replenishment spares. Initial spares are investment type items normally procured in support of the weapon system delivery schedule. Resystems, and equipment required by specialized repair activities. Replenishment spares include components and repair parts replacement equipment includes peculiar support equipment in support of out-of-production systems, equipment common to several

The breakdown of Spares and Repair Parts requirements follows:

		(In Thousand	(In Thousands of Dollars)	•
INITIAL SPARES (1/S)	FY 1980	FY 1981	FY 1982	FY 1983
Minuteman, Weapon System	\$ 700	\$ 720	\$ 534	
AA COSTOCIO	•			59,328
מיקסייי שלים	007	2,673	8,321	7,975
10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100	2,261	5,493	5,797
Air Launched Cruise Missile	006'9	27,944	10,030	13,720
Ground Launched Cruise Missile		9,451	23,316	4,733
tmägining infra-ked maverick ukov			4,180	7,744
TAC Crones				13,925
Target				2,359
	200	205	1,256	908'9
			9,212	14,334
TOTAL	\$ 8,800	\$ 43.254	\$ 62.342	\$136 721
	•			17/1001
Modification I/S	1,630	2,669	2,866	2,669
Replacement Equipment	31,770	33,903	40,558	35,284
Replenishment Spares	53,400	66,265	94,334	79.637
TOTAL SPARES & REPAIR PART	\$95,600	2186 091	901 9023	110
	2000	140,071	\$200,100	\$254,311

ACTIVITY: 5. Other Support

(In Thousands of Dollars)

Program Aequirements - FY 1983 - \$2,819,959

Program Requirements - FY 1982 - \$2,439,300

Program Requirements - FY 1981 - \$1,831,384

Program Requirements - FY 1980 - \$1,294,481

### PART I - PURPOSE AND SCOPE

expansion or modification of government-owned production facilities, nonrecurring maintenance and modernization of machine tools and equipment, preparation, crating, and shipping of government tools, improved manufacturing methods, and environmental protec-Industrial facilities provide for support equipment, and miscellaneous launch support requirements other than those chargeable to the Operations and Maintenance Space programs provide launch vehicles, space vehicles, peculiar ground This activity provides for industrial facilities, space programs, and special programs. tion measures instituted at government-owned plants.

# PART II - JUSTIFICATION OF FUNDS REQUESTED

The FY 1982 budget request of \$2,439,300 includes \$870,594 for operational space programs, \$16,073 for industrial facilities, and \$1,553,133 for special programs. The FY 1983 request for authorization of \$2,819,959 includes \$1,080,148 for operartional space programs, \$19,026 for industrial facilities and \$1,720,785 for special programs. COMSEC - This program supports the national objective of providing communications security on all critical spaceborne communications systems. Tasks under this program apply technology to develop COMSEC products for use in Air Force weapon systems, and supports the Air Force Security Secure Tempest Testing and Analysis program. This program is an integral part of the national COMSEC program, which is administered by the National Security Agency. The FY 1982 and FY 1983 funds provide for the pro-COMSEC program, which is administered by the National Security Agency. The FY 19 convenant of neculiar communications equipment for the program. (RDT&E PE33401F)

and approximately 25,000 sets of user equipment for all services. Each user will be able to precisely determine his position (to better than twenty meters average accuracy) and velocity (to a few centimeters per second), in three dimensions, anywhere in the world, unimpaired by weather. The FY 1982 funds provide for the procurement of two operational spacecraft. FY 1983 pro-NAVSTAR Global Positioning System (GPS) - The operational NAVSTAR GPS will consist of 18 satellites, a ground control station and approximately 25,000 sets of user equipment for all services. Each user will be able to precisely determine his position cures three satellites. (RDT&E PE64778F, 35165F)

Operational programs include the Defense Support Program, the Defense Satellite Communications System, the Space Space Launch Support - The Space Launch Support program provides the Inertial Upper Stages (IUS), Payload Assist Modules-Delta class (PAM-D), and spares support for all Air Force operational space programs (excluding Support Missions) launching on the Based Surveillance System, and the NAVSTAR Global Positioning System. Space Shuttle.

terface Verification Equipment, Airborne Support Equipment, and the Vandenberg Air Force Base Shuttle launch processing system. The 34.6 million dollars requested in Fiscal Year 1982 will provide funds to procure one IUS and necessary spares for In-

quirements; to provide necessary spares for Interface Verification Equipment, Airborne Support Equipment, and the Vandenberg AFB Shuttle launch processing system; and to procure required Airborne and Ground Support Equipment for the PAM-D. (RDISE PE63411F, In Fiscal Year 1983 funds will be requested to procure additional IUS and PAM-D stages to support operational launch re-

thorization is for the procurement of one satellite, contractor orbital incentives, launch support services, satellite modifica-Satellite Data System (SDS) - The SDS is a multi-purpose communications system which in conjunction with the Navy Fleet Satellibetween Air Force Satellite Control Facility ground stations. The FY 1982 funds will provide a continuing replenishment launch capability, advance procurement for one satellite, and satellite readiness configuration testing. The FY 1983 request for aute Communications Program (FLTSATCOM) has the high priority mission of supporting communications for the strategic forces and tions and propellants. (RDT&E PE35158F)

Defense Meteorological Satellite Program (DMSP) - DMSP is a joint Service program which is DOD°s most important single source of weather data. It is an advanced weather satellite system which supports both strategic and tactical missions. Two DMSP satellites provide worldwide, high quality visual and infrared cloud imagery and other specialized meteorological data four times a from the satellites to mobile Air Force and Navy tactical receiving terminals at key worldwide operating locations and onboard Numerical Weather Central at Monterey, California. Local area cloud imagery data are transmitted for immediate use directly Worldwide data are provided to the Air Force Global Weather Central at Offutt AFB, Nebraska, and to the Navy°s Fleet aircraft carriers at sea.

spacecraft to be launched in Fiscal Year 1983 and beyond. Fiscai Year 1983 funds will provide for satellite modifications and pheric data, to modify one Atlas Booster to support a Fiscal Year 1982 launch, and to encrypt command and telemetry links for In Fiscal Year 1982, 38.0 million dollars are programmed to procure special sensors to provide meteorological and procure additional special sensors which provide data to enhance the usefulness of the imagery. (RDT&E PE35160F) Defense Support Program (DSP) - The DSP satellites contain sensors which provide near real-time data to the National Command Authorities and other designated users. The FY 1982 funds initiate a block buy of four satellites with incremental funding (RDT&E PE 12431F) through FY 1986.

with DSCS III satellites which will provide increased channelization, flexibility, and anti-jam capability. DSCS III satellites ment, which is an Air Force responsibility, a multi-user terminal segment of ground, airborne, and naval elements, and an opera-Earth terminals to meet Air Fortional control segment. The authorized DSCS space segment consists of four operational and two in-orbit spare satellites positary command and control, crises management, intelligence data relay, early warning detection, overall DSCS program management, secure voice and high data rate transmissions in support of unique and vital national security requirements for worldwide mili-The DSCS program consists of a space segtioned over four geographical areas to provide global (less polar) coverage. Existing DSCS II satellites will be replenished Defense Satellite Communications System (DSCS) - The DSCS provides Super High Frequency (SHF) satellite communications for will include an UHF and, in future, SHF capability for Emergency Action Message dissemination. systems engineering, orbital operations, and satellite communications architecture. ce communications requirements are procured through the U.S. Army.

FY 81 funds provided for the acquisition of four sets of advance buy items for two DSCS III production satellites to be In the future, 1983 and beyond, requests for funding for the AFSATCOM transponders to be integrated with the DSCS III production satellites will also be included as part of the tellites, expendable launch vehicle support for propellants, engineering change orders, and partial payment for boosters previously procured. It also funds two AFSATCOM Single Channel transponders for these satellites. The funds for this effort were The FY 1982 funds will provide for the acquisition of two DSCS III production sa-DSCS request. Both the DSCS III spacecraft and the transponder are developed and acquired from the same contractor under the same contracts. In FY 1983, three DSCS III production satellites will be acquired and launch vehicle first time integration, aunch vehicle support, solid state amplifier development, and shuttle compatibility modifications will continue. (RDT&E transferred in FY 1982 from the AFSATCOM program to the DSCS program element. acquired in FY 1982 and three in FY 1983.

Communications system with transponders carried as secondary payloads on host spacecraft. The AFSATCOM system provides communiquest was transferred to the DSCS III program to facilitate funding and procurement actions and is consistent with other host The FY 82 re-Air Force Satellite Communications System (AFSATCOM) - The AFSATCOM system is a satellite based Ultra High Frequency cations between the National Command Authorities, the JCS, the military CINC's and the nuclear capable forces. program procurement procedures. (RDT&E PE33601F) Space Boosters - The Space Boosters program provides an austere expendable launch vehicle backup to guarantee the launch of cri-

Titan III(34)D liquid rocket engines as part of the effort to further extend maintenance of critical Titan III production capatical USAF operational payloads in the event that the Space Shuttle program is delayed or the orbiter fleet is grounded. The 65.4 million dollars requested in Fiscal Year 1982 will provide funds for advance buy of materials (36.8 million dollars) needed to produce two additional Titan III(34)D backup boosters and for production (28.6 million dollars) of two sets of bility past the current Space Shuttle operational data (September 1982) and into 1983.

In Fiscal Year 1983 funds will be requested to complete the two Titan III(34)D vehicles using advance buy materials pro-This supports the efforts to maintain critical Titan III production capability into 1983. As was the case with the previous efforts to maintain critical production capability, incremental decision points keyed to critical Shuttle development milestones will be used to advance these two vehicles through major production stages. Fiscal Year 1983 funds to support phaseout of certain Titan III production capability, no longer required, will also be requested. (RDT&E cured in Fiscal Year 1982.

Space Shuttie - The Space Shuttle is a NASA development program to provide an advanced, reusable, manned orbiter vehicle which will be capable of transporting payloads to low earth orbit. To carry payloads to higher operational orbits, the Air Force will build an unmanned Inertial Upper Stage (IUS). By Executive direction, the Air Force will: 1) provide a shuttle launch and lanfunds requested for FY 1982 and FY 1983 provide for the procurement of common and unique support equipment for command and conthe unique ground and airborne support equipment for the IUS and the initial spares to support this equipment. (RDT&E PE64311F ding capability at Vandenberg AFB, CA; 2) develop the Inertial Upper Stage; 3) transition DOD payloads to the shuttle; 4) suptrol of classified DOD missions and the Vandenberg AFB (VAFB) shuttle launch site, the VAFB Launch Processing System equipment, port NASA development efforts and make sure the shuttle meets DOD requirements. The IUS will be used by both DOD and NASA.

A summary of the funding requirements for space programs is as follows:

FY 1982 FY 1983		\$870,094 \$1,080,148
FY 1981	\$ 15,924 719 95,468 43,355 52,704 81,565 8,165 68,150	\$484,650
FY 1980	\$ 20,509 21,905 100,223 25,400 103,862 17,300 192 44,000 137,446	\$470,837
	COMSEC NAVSTAR GPS Space Launch Support Satellite Data System Defense Merebrological Satellite Program Defense Support Program Defense Satellite Communications System Air Force Satellite Communications System Space Boosters	TOTAL SPACE PROGRAMS

\* Will be transferred to DSCS program element.

Industrial Facilities (FY 82, \$16,073; FY 83 \$19,026) - This is a continuing program with government owned properties which includes requirements for plant expansions; packing crating, and handling of plant equipment; rehabilitation; environmental procludes requirements for plant tection, manufacturing methods; and energy conservation.

Special Programs (FY 82, \$1,553,133; FY 83, \$1,720,785). Special Program requirements are of a sensitive nature requiring special access. (Includes NFIP & Special Update)

COMPARISON OF FY 1982 PROGRAM REQUIREMENTS AS REFLECTED IN FY 1981 BUDGET WITH FY 1982 PROGRAM REQUIREMENTS AS SHOWN IN FY 1982 BUDGET

### SUMMARY OF PROGRAM REQUIREMENTS

	£	or	$\widehat{\cdot}$	126	716	90	307	686	132
	Increase (+)		Decrease (-)	0 <b>,</b> 8 +\$	+166,7	-36,1	+48,3	+171,089	+358,032
(In Thousands of Dollars)	Program	Requirements	Per 1982 Budget	\$ 106,600	1,431,800	008,96	200,100	2,439,300	4,274,600
	Program	Requirements	Per 1981 Budget	\$ 98,574	1,265,084	132,906	151,793	2,268,211	3,916,568
				Ballistic Missiles	Other Missiles	Modification on In-Service Missiles	Spares and Repair Parts	Other Support	Total Fiscal Year Program

1. Ballistic Missiles (\$+8,026) This increase was caused by a combination of adding the Air Launch Control System Phase III to the FY 82 Budget and changes caused by revised economic escalation indices.

changes: Air Launched Cruise Missiles (\$+84,340) Increase was caused by a repricing during the production decision process and the addition of warranties. Ground Launched Cruise Missile (\$+88,329) Increase due to a repricing of the production estimates and the addition of three transporter/erector/launches to the buy. AIM-7F/M Sparrow (\$+26,668) Increase is due to revised economic escalation indices and increased quantities. AIM-9L/M Sidewinder (+\$13,048) Increase is due to increased quantities and revised escalation indices. Target Drones (+\$1,473) Increase due to revised economic escalation indices. AGM-65D Maverick (+\$8,025) Increase due to revised economic escalation indices. ABM-65D Maverick

The following programs decreased because initiation of procurement was deferred until FY 1983: AGM-88A HARM (\$-136,144) Tactical Drones (\$-4,997)

- increases to various Titan and Minuteman ICBM modifications partially offset by reductions in classified programs and SRAM modification requirements. Minuteman extended survivable power (\$-52,912) was cancelled and the AIM-7 Sparrow update quantities 3. Modification of In-Service Missiles (\$-36,106) Class IV funds had a net increase of (\$ +9,781). Major changes were were increased (\$+7,025).
- 4. Spares and Repair Parts (\$+48,307) This increase reflects the increasing requirement to support and replace aging equipment to fill supply pipelines to increase readiness and to support new systems entering the inventory.
- cremental funding of a block buy of 4 spacecraft; DSCD (\$+21,388) increased due to a change in the Satellite procurement profile to buy 2 spacecraft, 4 sets of advance buy parts and to fund the AFSATCOM sensors in the DSCS live in keeping with other host program procurement policy; Space Boosters (\$+65,445) increased to buy two more additional back-up Titan 34D/IUS Boosters; Space Shuttle (\$+108,409), slips in the 80 and 81 procurement programs resulting from NASA delays in the shuttle program caused this 5. Other Support (\$+171,089) Major changes were related to: DMSP (\$+16,855) increased to modify spacecraft and an Atlas Booster; DSP (\$+44,777) increased as a result of a departure from the full funding concept to a tailored acquisition policy and inincrease; Special Program (\$-85,785) decrease caused by changes in program requirements in this Special Access area.

COMPARISON OF FY 1981 PROGRAM REQUIREMENTS AS REFLECTED IN FY 1981 BUDGET WITH FY 1981 PROGRAM REQUIREMENTS AS SHOWN IN FY 1982 BUDGET

### SUMMARY OF PROGRAM REQUIREMENTS

		(In Inousands of Dollars)		
	Program	Program	Increase (+)	
	Requirements	Requirements	or	
	Per 1981 Budget	Per 1982 Budget	Decrease (-)	
stic Missiles	\$ 141,990	\$ 141,990	s N/C	
Missiles	804,624	916,900	+'12,276	
fication of In-Service Missiles	99,552	104,552	+5,000	
s and Repair Parts	146,091	146,091	N/C	
Support	1,885,327	1,831,384	-53,943	
Reimbursables	61,223	94,481	+33,258	
Total Fiscal Year Program	\$3,138,807	\$3,235,398	\$ +96,591	

Ballistic Missiles No change.

- Other Missiles (+112,276) Funds for the Rapier air base defense missile system were added (\$+90,000) and (\$22,276) was added the AIM-7M Sparrow.
- Modification of In-Service Missiles (\$+5,000) funds were added by the Congress for Minuteman survivable power program
- Spares and Repair Parts No change.
- 5. Other Support (\$-53,943) Congressional actions and program changes decreased the following programs; DSCS (\$-11,475), AF-SATCOM (\$-5,299), Space Shuttle (\$-12,493), Special Programs (\$-21,707), and various below threshold reprogrammings (\$-2,969).

COMPARISON OF FY 1981 FINANCING AS REFLECTED IN FY 1981 BUDGET WITH FY 1981 FINANCING AS SHOWN IN FY 1982 BUDGET

	(In Th	(In Thousands of Dollars)	irs)
	Financing Per FY 1981 Amended Budget	Financing Per FY 1982 Budget	Increase (+) or
Program requirements	3,138,807	3,235,398	+96,591
Program requirements (Service account)	(3,077,584) (61,225)	(3,140,917) (94,481)	(+98,633) (+33,258)
Less:			
Anticipated reimbursements	61,223	94,481	+33,258
Appropriation	3,077,584	3,140,917	+63,333
EXPLANATION OF CHANGES IN FINANCING	INCING		

The Fiscal Year 1981 program has been increased \$96,591 thousand since submission of the FY 1981 budget. Adjustments by category are explained below:

The increase is due to a revised estimate of customer orders in FY 1981, Anticipated Reimbursements.

COMPARISON OF FY 1980 PROGRAM REQUIREMENTS AS REFLECTED IN FY 1981 BUDGET WITH FY 1980 PROCRAM REQUIREMENTS AS SHOWN IN FY 1982 BUDGET

### SUMMARY OF PROGRAM REQUIREMENTS

	<u>ت</u>	(In Inousands of Dollars)	(8)
	Program	Program	Increase (+)
	Requirements	Requirements	or
	Per 1981 Budget	Per 1982 Budget	Decrease (-)
Rellietic Missiles	\$ 108.500	\$ 108.500	\$ N/C
Dailistic iii sailis	002 007	060 209	-2 610
Other Missiles	007,600	060,100	01047
Modification of In-Service Missiles	72,800	52,200	-20,600
Spares and Repair Parts	006, 46	009'56	+700
Other Support	1,294,485	1,295,841	+1,356
Reimbursable Program	42,857	91,274	+48,417
Total Fiscal Year Program	2,223,242	2,250,505	+27,263

### EXPLANATION BY BUDGET ACTIVITY

- Ballistic Missiles (N/C)
- Other Missiles (\$-2,610) Was transferred to the other procurement appropriation.
- 3. Modification of In-Service Missiles (\$-20,600) Funds were reprogramed for Minuteman to the RDT&E appropriation to cover shortfalls (\$-10,700) and (\$-10,200) to offset high inflation. Minor increases totaling (\$300) were made in several programs.
- Spares and Repair Parts (\$+700) Funds were added for inflation. .
- 5. Other Support (\$+1,356) Internal reprogramming actions accounted for an increase in DMSP (\$+3,800), and a decrease in space launch support (\$-4,000). A slip in the NASA space shuttle program caused the AF to slip VAFB to FY 81 (\$-25,054). A decision to buy additional space boosters in FY 81 increased the advance buy line (\$+21,000), and changes in Special Programs increased the line by \$+5,610.

COMPARISON OF FY 1980 FINANCING AS REFLECTED IN FY 1981 BUDGET WITH FY 1980 FINANCING AS SHOWN IN FY 1982 BUDGET

	(In Th	(In Thousands of Dollars)	rs)
	Financing Per FY 1981 Amended Budget	Financing Per FY 1982	Increase (+)
Program requirements	2,223,242	2,250,505	
Program requirements (Service account)		(2,159,231)	(-23, 754)
Less:			(140,411)
Anticipated reimbursements	42,857 15,000 7,600	91,274 31,403 8,200	+48,417 +16,400 +600
Add:			
Transferred to other accounts	2,600 a/	40,754	+38,154
Appropriation	2, 160, 385	2,160,385	,
a/ Includes proposed transfer of \$2,600 to finance the FY 80 Supplemental Amendment	Amendment		

## EXPLANATION OF CHANGES IN FINANCING

The Fiscal Year 1980 program has been increased \$27,263 thousand since submission of the FY 1981 budget. Adjustments by category of financing are explained below:

The increase of \$48,417 thousand is due to receipt of actual customer orders in 1. Anticipated Reimbursements.

by finance FY 1980 FY 1980 RDT&E to 2. Reappropriation. The increase of \$16,400 thousand is a transfer from Congressional direction specified in P.L. 96-154.

3. Transferred from Other Accounts. The increase of \$600 thousand is a transfer from Aircraft Procurement, Air For-

4. Transferred to Other Accounts. \$10,000 thousand was transferred to 0300, 0400, FY 1980; \$9,500 thousand was transferred to 3600, FY 1980; and \$11,000 thousand was transferred to 3500, FY 1980. All transfers were in accordance with Section 734 of the DoD Appropriation Act of 1980.

ANALYSIS OF UNOBLIGATED BALANCES - 30 SEPTEMBER 1982
SUMMARY BY CATEGORY
(In Millions of Dollars)

			FY 1981	FY 1982	Total	% of Total Unobligated
-	H	Military Interdepartmental Purchase Requests: (MIPRs).	\$43.5	\$225.5	\$269.0	14.2%
2.	00	Completing Contractual Arrangements:				
	40	Specification Definitions	3.6	19.1	22.7	1.2%
	۵.	b. Price Redeterminations	38.6	200.1	238.7	12.6%
		c. Definitization of Contracts	93.0	482.8	575.8	30.4%
3	Full	Full Funding Policy:				
	ю.	a. Delayed/Revised Program Release	106.6	552.6	659.2	34.8%
	۵.	Engineering Changes	20.9	107.9	128.8	6.8%
		TOTAL UNOBLIGATED FY 1982	\$306.2	\$1,588.0	\$1,894.2	

#### **EXPLANATION**

Procurement funds are available for obligation for three years because of the extensive lead time required to develop detailed specification, issue Requests for Proposals (RFPs) and to negotiate and finalize contracts for procurement of investment equipment. Unobligated balances are required for programmed and needed items on which contracts have not reached the obligational stage by the end of the fiscal year because of the procurement process.

The following are illustrative of the reasons which will cause unobligated balances at the end of each year:

- is received from the other military service. Frequently, contractual arrangements will have been completed and the obligation incurred but notification from the other service is not received in time for recording in Air Force quest one of the other military services to procure Air Force requirements in conjunction with their own or with award These documents are used to rethose of another service. Funds to support these requests remain unobligated until notification of contract Military Interdepartmental Purchase Requests (MIPRs) (\$269.0 million) records prior to or at the end of a fiscal year,
- 2. Completing Contractual Arrangements:
- items cannot be definitized in time to permit contract negotiation prior to or at the end of the fiscal Unobligated funds result when specifications Specification Definitions (\$22.7 Million) introduced
- mined and obligated prior to the end of the fiscal year. Funds are reserved for these purposes when upward adjust-Price Redeterminations (\$238.7 million) - Prices are redetermined at intervals throughout the life of a contract. Final obligation for contracts must await negotiations on agreed target-ceiling formulae. In most large contracts, the rewards and penalties of multiple incentives (cost, performance and schedule) cannot be determents seem likely; however, obligation does not occur until a formal redetermination has been agreed upon and contract amended. Unobligated funds at year end result,
- ders may occasionally be initiated under letter contracts. The letter contract generates a partial obligation of the total program value with the balance remaining committed but unobligated pending definitization and negotiation These actions can carry over the end of a fiscal year and result in unobligated Definitization of Contracts (\$575.8 million) - Procurements of complex systems and large material orof the detailed contract terms.

- provides that adequate appropriations and funds must be available in a given fiscal year for obligation, committed or set aside in a reserve account in an aggregate amount sufficient to complete the procurement of a specified number of end items and advance procurement for approved programs. Unobligated balances at the end of a fiscal year are a conse-This policy, enunciated in DoD Directive 7200.4 (October 30, 1969) quence of this policy and accrue in the following categories: Full Funding Policy -
- laying the obligation of funds by the end of the fiscal year. Also, approved and funded programs are sometimes delayed/undirected beyond 30 September pending decision on an aspect of the program that has arisen requiring resoother equipment to meet changing situations or to exploit engineering improvements generally require prior approval of reprogramming requests which can delay program release and direction until well into the fiscal year, thus de-Delayed/Revised Program Release (\$659.2 million) - Adjustments in quantities or specifications of lution before proceeding.
- provision is made in procurement programs, as a percentage of the estimated cost of the item, to cover engineering improvements and design changes which will occur as a result of manufacturing experience of Air Force Engineering changes are not definitive requirements known in advance and they cannot be obligated until the change is authorized and directed. These changes occur throughout the life of the production contract Engineering Changes (\$128.8 million) - Based on prior experience with systems of like nature and comand result in unobligated balances. requirements. plexities,

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#### MODIFICATION OF MISSILES FY-82 PROGRAM

FY-82 APPROPRIATION: MISSILE PRCCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: LAUNCH CONTROL SET UPDATE, MN-10500C

MODELS OF MISSILES AFFECTED: LGM-25C

MODIFY THE TITAN II LAUNCH CONTROL SYSTEM (LCS) BY REPLACING THE PRESENT ELEVEN (III) DRAWERS WITH THREE (3) STATE-OF-THE-ART DRAWERS. WEAPON SYSTEM AND MOBILE MAINTENANCE TRAINERS WILL BE UPDATED. PRESENT LCS FAILURE RATE IS EXCESSIVE, SPARES ARE NOT AVAILABLE, INTEGRITY HAS BEEN COMPROMISED THROUGH INDISCRIMINANT PARTS REPLACEMENT AND EXTENSIVE REPAIR AND TRAINING FOR OPERATION AND MAINTENANCE IS REQUIRED. DE SCRIPTION/JUSTIFICATION:

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OUTYEAR QTY COST									
FY-83 QTY COST									
								]       	
FY-82 QTY COST	•		8.4	-	-	• 5	1.0	1	•
	}		45						2
CST QTY CCST	•	3.4	1.6	1.1	2.8	1:0	7.		1.8 IU 10.0 C+ U.O.
	2	-	6					! !	2
201	8	1.8						1 .	φ. -
PR QTY								! !	
SCOPE OF PROGRAM:	BASIS FOR COST ESTIMATE:	NONRECURE ING	KITS	DATA	TRAINER	SUPPORT EQUIP.	TOOLING		TOTAL

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT/FIELD TEAM LEAD TIME - 24 MCNTHS MCDIFICATION OF MISSILES FY-82 PROGRAM

FY-82 APPROPRIATION: MISSILE PRCCUREMENT, AIR FURCE

MODIFICATION TITLE AND NO: MODERNIZE FIELD EQUIPMENT, MN-106018

MODELS OF MISSILES AFFECTED: AIM-4F/6

DESCRIPTION/JUSTIF CATION: REPLACE HIGH FAILURE CCNSOLE SUBASSEMBLIES WITH SOLID STATE COMPONENTS.

APPROXIMATELY 70% OF ALL CONSOLE SPARE COMPONENTS ARE IN A REPARABLE STATE DUE TO THE NONAVAILABILITY OF CONVENTIONAL VACUUM TUBE TYPE CIRCUIT COMPONENTS. REPAIR IS PRESENTLY BEING ACCOMPLISHED BY CANNIBALIZATION OF SPARE CONSOLE COMPONENTS TO OBTAIN PARTS. MANY CONSOLE SPARE COMPONENTS HAVE BEEN CANNIBALIZED TO THE POINT OF CONDEMNATION.

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	-81	
	FY	
	PRIOR . FY-81 FY-82 FY-83 0	
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SCOPE OF PROGRAM:		
P.		
SCOPE		

0 T A L	QTY COST		20 9.1		20 7.6	20 9.1
		•	••		•	20
IYEAR	QTY COST					1
50	710	! !				!
-83	QTY CCST		2.0		2.0	2.0
<b>)</b> -	άIΥ	1	Ð		2	1 5
-82	COST	1	4.		4	4.
Ť	410	1	7		7	1
-81	OTY CEST OTY CEST OTY COST		2 2.2 12 4.5 1 .4 5 2.0		2 .7 12 4.5 1 .4 5 2.0	2 2.2 12 4.5 1 .4 5 2.0
F	710	1	12		12	12
108	CEST	1	2.2		1.5	2.2
a. a.	017	1	7		7	2
				BASIS FOR COST ESTIMATE:		
				BAS	KITS	TOTAL

METHOD OF IMPLEMENTATION: INSTALLATION - CCNTRACTOR/FIELD TEAM(S)
LEAD TIME - 12 MONTHS

### MODIFICATION OF MISSILES FY-82 PROGRAM

FY-82 APPROPRIATION: MISSILE PRCCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: UNDERGROUND COMMUNICATIONS, MN-10514B

MODELS OF MISSILES AFFECTED: LGM-25

DESCRIPTION/JUSTIFICATION: RELIABILITY AND AGING SURVEILLANCE PROGRAM TESTING HAS REVEALED
EXTENSIVE CORROSION AND DAMAGE TO COMMUNICATION CONDLITS, CONNECTIONS, AND TERMINAL BOXES IN
THE UNDERGROUND PITS. REPAIR IS NCT EFFECTIVE SINCE DESIGN AND CONSTRUCTION OF FACILITIES IS
NOT ADEQUATE TO PREVENT RECURRENCE OF DAMAGE.

SCOPE OF PROGRAM:	PR		<del>,</del>	18-		F Y-82	Ţ	-83	OUT	rear	1 0	T A L
	¥10	QTY COST	Q17	Q1Y C0ST	QTY	203	Q17	T QTY COST QT	Q17	QTY COST	710	QTY COST
					110	2	55	55 1.2			165	3.4
BASIS FOR COST ESTIMATE:									٠			
EC URR ING						•2		.2				*
KITS					110	110 1.9 55	52	6.			165	2.8
	! ! !	1	1 1	1 1	!	7 !	1			 	1	7.
TOTAL					110	110 2.2 55 1.2	55	1.2			165	3.4

METHOD OF IMPLEMENTATION: INSTALLATION - DEPCT LEAD TIME - 12 MONTHS

MODIFICATION OF MISSILES FY-82 PROGRAM

MISSILE PROCUREMENT, AIR FORCE FY-82 APPROPRIATION: MODIFICATION TITLE AND NO: MODIFY VAPOR DETECTION SYSTEM, MN-105168

MODELS OF MISSILES AFFECTED: LGM-25C

DESCRIPTION/JUSTIFICATION: THE PROPELLANTS USED IN TITAN ARE EXTREMELY TOXIC. THE CURRENT SYSTEM IS BECOMING INCREASINGLY DIFFICULT TO MAINTAIN AND OSHA HAS PROPOSED MUCH LOWER THRESHOLD LIMIT VALUES (TLV). THE PRESENT VAPOR DETECTION SYSTEM IS INCAPABLE OF DETECTING TO THE LOWERED TLV.

SCCPE OF PROGRAM:												
	PRI	0.R	Ę.	-81		-82	÷	-83	200	rear	O -	T A L
	QTY COST	C 0 S T	QIY	QTY COST		QTY COST	<b>QTY</b>	QTY COST	ΩTΥ	QTY COST	416	QTY COST
		1111	-			1 1 1	1		 	1	11111	
						2.0	27	12.5	28	28 7.0	25	21.5
BASIS FOR COST ESTIMATE:												
NONRECURE ING						2.0		3.0				5.0
KITS							27	6.8	28	28 7.0	55	13.8
DATA								s.				٠.
TRAINER								1.0				1.0
SUPPORT EQUIP.								1.0				1.0
T 00L 1NG								•5				•2
			1 1 1 1	 	1						1	
TOTAL						2.0	27	2.0 27 12.5 28 7.0	28	1.0	55	21.5

INSTALL PTICN - DEPCT LEAD TIME - 24 MONTHS METHOD OF IMPLEMENTATION:

MUDIFICATION OF MISSILES FY-82 PROGRAM

FY-82 APPROPRIATION: MISSILE PROCUREMENT, AIR FORCE

MISSILE PRCCEDURES TRAINER COMPUTER CONTROL, MN-10518B MODIFICATION TITLE AND NO:

MODELS OF MISSILES AFFECTED: LGM-25C MISSILE PROCEDURES TRAINER

DESCRIPTION/JUSTIFICATION: PROVIDES A CCMPUTER AND INTERFACE FOR CCNTROL AND OPERATION OF THE MISSILE PROCEDURES TRAINER TO ALLCW CONFIGURATION MAINTENANCE WITH WEAPON SYSTEM. IT IS NECESSARY TO COMPUTERIZE THIS TRAINER AS THE MAGNITUDE OF ITS TEACHING FUNCTION IS CONTINUALLY EXPANDING AS THE WEAPON SYSTEM IS MOCIFIED AND MODERNIZED. CURRENT STATE-OF-THE-ART FOR EQUIPMENT TO SUPPORT AND OPERATE A TRAINER OF THIS TYPE IS DESIGNED AND BUILT FOR COMPUTER

SCCPE OF PROGRAM:

METHOD OF IMPLEMENTATION: INSTALLATION - CCNTRACTOR LEAD TIME - 12 MONTHS

## MODIFICATION OF MISSILES FY-82 PRUGRAM

FY-82 APPROPRIATION: MISSILE PROCUREMENT, AIR FORCE

PROPELLANT SYSTEM/IN LINE QUICK CISCONNECTS, MN-50194A MODIFICATION TITLE AND NU:

MODELS OF MISSILES AFFECTED: LGM-25C

DESCRIPTION/JUSTIFICATION: LOGISTICS NONSUPPORTABILITY OF THE GROUND-HALF QUICK DISCONNECT AND THE SAFETY PROBLEMS RELATED WITH THE IN-LINE FILTER DICTATE THIS MODIFICATION. THE SEALS CURRENTLY USED WITH THE IN-LINE FILTER WERE A MAJOR FACTOR IN THE MISSILE ACCIDENT IN 1978 WHICH RESULTED IN TWO FATALITIES.

SCOPE OF PROGRAM:	90199		ā	) )	, a ( ) a (	) Li	α α	1	a V S	-	 
	OTY COST	Q 1.Y	OTY CEST		OTY CCSI	Q17		Q17	QTY COST	OTY COST	COST
		}		1	55 2.0	į	1	1	-	55	2.0
BASIS FOR COST ESTIMATE:				<b>.</b>	) }						l
NONRECURB ING				~	•2					, <b>-</b>	•2
KITS				54	1.4					54	1.4
DATA					•2						• 2
TRAINER					• 2						.2
			1 1 1		1111	1111	1 1 1 1				
TOTAL				55	2.0					55	2.0

METHOD OF IMPLEMENTATION: INSTALLATION - DEPCT LEAD TIME - 11 MCNTHS

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MODIFICATION OF MISSILES FY-82 PROGRAM

FY-32 APPROPPIATION: MISSILE PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: SHRIKE GRAVITY BIAS, MN-10602B

MODELS OF MISSILFS AFFECTED: AGM-45 A/8-9

DESCRIPTION /JUSTIFICATION:

SCOPE OF PROSRAM:												
	PR	PRIOR		٦٩.	Ę.	FY-82	Ŧ	FY-83	OUT	CUTYEAR	1 0 1	AL
	Q T Y	QTY COST	QIY	QTY COST	≻ [O	COST	QTY	QTY COST QTY COST	<b>01</b> Y	OTY COST	QTY COST	COST
	1	1	1	1	!	1	1	1 1	 	1		
	200	2.2	100	6.3	009	5.5	1600	200 2.2 700 6.3 600 5.5 1600 15.2		5.1	3600	34.3
BASIS FOR COST ESTIMATE:												
NONRECURE ING												7.
KITS	200	1.3	100	6.3	009	5.5	1600	700 6.3 600 5.5 1600 15.2 500	200	5.1	3600	34.0
UATA		-										7.
SUPPORT EQUIP.		. 1										•
	200	2.2	700	6.3	. 009	ן ן ת ן ת	1600	200 2,2 700 6,3 600 5,8 1600 15,2 500 5,1	500	5.1	36.00	34.3
		1		•	•	1			) )	•	)	)
METHOD OF IMPLEMENTATION:	INSTA	INSTALLATION - DEPCT/CONTRACTOR	- N	EPCT/C	ONTRA	CTCR						
	<u>ت</u> بـ	LEAD TIME - 12 MONTHS	ند ۱ س	2 MONT	HS							

MCDIFICATION OF MISSILES FY-82 PROGRAM

FY-82 APPROPRIATION: MISSILE PRCCUREMENT, AIR FURCE

MODIFICATION TITLE AND NO: SHRIKE FUZE ANTENNA IMPROVEMENT, MN-196098

MODELS OF MISSILES AFFECTED: AGM-45A/8-6, -5

DESCRIPTION/JUSTIFICATION:

SCOPE OF PRUGRAM:												
	R R	PRICR	18-X3	-81	¥	-82		FY-83	(LOC)	rear	101	A L
	ÇIY	QTY CCST	417	QTY CCSI	710	QIY CGST		QTY CCST	ÇIY	CIY COST	A 10	OTY COST
	1	1		1 .	1	1	1000		100	! 0		3 31
BASIS FUR COST ESTIMATE:			000	600 2.3			0007	**¢ 0061 6*1 0002	0061		201	6.63
KITS SUPPORT FQUIP.			600	600 1.8			2000	2000 7.3 1500 5.9	1500	5 • 9	4100	15.0
TOTAL	1 1 1		009	600 2.3		! ! !	2000	2000 7.3 1500 5.9	1500	5.9	4100	15.5
METHOD OF IMPLEMENTATION:	INSTA	INSTALLATION - FIELD LEAD TIME - 12 MONTHS	N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LELD 2 MONT	so T							

MODIFICATION OF MISSILES FY-82 PROGRAM

FY-82 APPROPRIATION: MISSILE PRCCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: ERCS OSCILLATOR, MN-152458

MODELS OF MISSILES AFFECTED: EMERGENCY RCCKET CCMMUNICATION SYSTEM (ERCS)

DESCRIPTION/JUSTIFICATION: THIS MCDIFICATION WILL REDESIGN THE OSCILLATOR TO CONFORM TO THE NEW INTERNATIONAL STANDARDS WHICH CHANGE THE BANDWITH FOR THE SYSTEM FROM 100 KHZ TO 25 KHZ. THE MOD WILL ALSO INCREASE FREQUENCY STABILITY TO ENHANCE TRANSMISSION CLARITY TO SIOP FORCES.

T 0 T A L QTY COST 28 2.0		1.1	2.0
017 017 28		28	28
OUTYEAR QTY COST			28 2.0
FY-83 QTY CUST		.6 28 1.1	28 2.0
		28	
-82 COST			!
64.			<u> </u>
FY-81 FY-82 QIY CCS1 QIY COST			
PRIOR QTY CCST			
PR			! !
SCCPE OF PROGRAM:	BASIS FOR COST ESTIMATE:	NONRECURRING KITS Data	TOTAL

METHO. JF IMPLEMENTATION: INSTALLATION - DEPCT LEAD TIME - 6 MONTHS

MODIFICATION OF MISSILES FY-82 PROGRAM

MISSILE PRCCUREMENT, AIR FORCE FY-82 APPROPRIATION: MODIFICATION TITLE AND NO: IMPROVED EMERGENCY ROCKET COMM SYSTEM, MN-16525C

454L PAYLOAD MODELS OF MISSILES AFFECTED:

REPAIR ARE NOT AVAILABLE AND JOR DIFFICULT AND COSTLY TO OBTAIN. MODIFICATION WILL INCORPORATE CURRENT STATE OF THE ART ELECTRONIC COMPONENTS WHICH ARE STANDARD PRODUCTION ITEMS AND AVAILABLE FROM MULTIPLE SOURCES, INTO PAYLOAD, CONTRCL-MONITOR CONSOLE, CONTROL-MONITOR DATA TRANSFER AND ASSOCIATED SUPPORT EQUIPMENT. DESCRIPTION/JUSTIFICATION: DUE TO THE AGING OF THE SYSTEM, MANY ELECTRONIC PARTS REQUIRED FOR

•		COST		33.8		4.6	20.7	1.8	₩.	1.1		33.8
•	- - -	QTY COST	-	65		m	95					65
4	TEAK	QTY COST	1	4.1			4.1					4.1
		ΔŢ	1	12			12					12
ç	- 83	QTY COST		5.5			5.5					5.2
i	Ļ	Q1	1	15			15					15
ć	-82	OTY COST (	1	4.4			4.4					4.4
	-	710	1	13			13					13
•	18-	CCSI	1 1 1	8.5		.,	5. B		∞•	1.1		8.5
ì	Ļ	710	1	18			18				11111	18
6	¥ 0.7	QTY CCST QTY CCST		11.6		8.7	4 1.2 18 5.8 13 4.4 15 5.2 12 4.1	1.7				7 11.6 18 8.5 13 4.4 15 5.2 12 4.1
ć	X	QTY	!	7		m	4				1 1 1	7
SCOPE OF PROGRAM:					BASIS FOR COST ESTIMATE:	NONRECURRING	KITS	DATA	TRAINER	SUPPORT EQUIP.		TOTAL

METHOD JF IMPLEMENTATION: INSTALLATION - DEPCT LEAD TIME - 12 MONTHS

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MCDIFICATION OF MISSILES FY-82 PRUGRAM

FY-82 APPROPRIATION: MISSILE PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NC: SECURITY SYSTEM RETROFIT, MN-10505B

MODELS OF MISSILES AFFECTED: LGM-30F/G, WING I SQD 20, WING VI

DESCRIPTION/JUSTIFICATION: REPLACE THE PRESENT BCEING SECURITY SYSTEM AT WINGS I AND VI WITH THE JPDATED SYLVANIA SECURITY SYSTEM USED AT WINGS II THROUGH V. THE FALSE ALARM RATES WITH THE PRESENT SYSTEM ARE EXCESSIVE, RESULTING IN AN UNSUPPORTABLE WORKLOAD AND HIGH COSTS TO SAC. THE FALSE ALARM KATES WILL BE REDUCED IN EXCESS OF 80 PERCENT BY REPLACEMENT WITH THE UPDATED SYSTEM

		TOTAL
		OUTYEAR
		FY-83
		FY-82
		FY-81
		PRIOR
VY S I EM.	SCOPE OF PROGRAM:	

TAL	OTY COST	1	38.0		7.8	28.5	•2	1.5	-	38.0	
1 0	OTY	-	351			351				351	
YEAR	QTY COST		17 1.3			17 1.3				1.3	
OUT	QT Y	1							-	11	
-83	QTY CCST		21.3		2.7	9.6 217 17.6	٦.	6.	1 1 1 1	2.0 117 13.4 217 21.3 17 1.3	
¥	<b>VIO</b>	1	217			217				217	
					3.1	9.6	٦.	9.		13.4	
FΥ	QIX	1	117			111			1 1 1 1	117	
-81	QTY CCST QTY CCST	1	2.0		2.0				11111111111	2.0	
FΥ	Q17	1									
108	QTY CCST (	1 1 1							1111111111		
A d	Q T Y	1							1		
				BASIS FOR COST ESTIMATE:	NONRECURRING	KITS	DATA	TRA INER		TOTAL	

METHOD OF IMPLEMENTATION: INSTALLATION - DEPCT LEAD TIME - 24 MONTHS

### MISSILES MCDIFICATION OF MIS FY-82 PROGRAM

MISSILE PRCCUREMENT, AIR FORCE

FY-82 APPRUPRIATION:

NS-17 UPGRACE, MN-10520B MODIFICATION TITLE AND NO:

MODELS OF MISSILES AFFECTED: LGM-30F

SYSTEM WAS DEACTIVATED IN 1975. THE AIR FORCE PURCHASED 10 YEARS OF HARDNESS CRITICAL PARTS TO SUSTAIN THE SYSTEM THROUGH 1985. THE NS-17 HAS BEEN USING THESE HARDNESS CRITICAL PARTS AT AN INCREASING RATE AND SUPPORT OF THE SYSTEM IN THE FY-84-85 TIME FRAME IS QUESTIONABLE. THIS MODIFICATION WILL DECREASE HARDNESS CRITICAL PARTS REQUIREMENTS TO ASSURE CONTINUING SUPPORTABILITY OF THE MINUTEMAN II WEAPON SYSTEM. THE PRODUCTION OF REPLACEMENT PARTS FOR THE NS-17 GUIDANCE AND CONTROL DESCRIPTION/JUSTIFICATION:

SCOPE OF PROGRAM:

				584 47.7 585 51.5		3.2 2	3 40.9 583 40.9				1 3.8 584 47.7 585 51.5
č	Š	T 0T	1	8 58		80	583				8 58
9 1	0	COS	1	1 3.8		•				1 1 1	<u>.</u>
				-		-				!!!!	-
6	70	QTY CCST	-								
S U		ΔIΥ	1							-	
10	70	QTY COST	1111								
)	<u>_</u>	ÇI	1							1 1 1 1	
901	¥0.	QTY CCST	1								
0	4	QIX	!!!							1	
SCUPE OF PROGRAM:					BASIS FUR COST ESTIMATE:	NONRECURR ING	KITS	DATA	SUPPORT EQUIP.		TOTAL

LEAD TIME - 12 MCNTHS - DEPOT INSTALL AT ION METHOD OF IMPLEMENTATION:

### MODIFICATION OF MISSILES FY-82 PROGRAM

FY-82 APPROPRIATION: MISSILE PROCUREMENT, AIR FURCE

BRINE CHILLER UNITS REPLACEMENT, MN-18543B MODIFICATION TITLE AND NO:

MODELS OF MISSILES AFFECTED: LGM-30

DESCRIPTION/JUSTIFICATION: ENVIRONMENTAL CCNTROL SYSTEM BRINE CHILLER UNIT AND INSTRUMENT AIR COMPRESSOR HAVE OPERATED COMPRESSOR LIFE STUDY REVEALED THE BRINE CHILLER AND INSTRUMENT AIR COMPRESSOR HAVE OPERATED BEYOND THEIR DESIGN AND ARE NOW WORN-OUT. THE PRESENT BRINE CHILLER AND INSTRUMENT AIR COMPRESSOR. COMPRESSOR WILL BE REPLACED WITH NEW DESIGNED BRINE CHILLER AND INSTRUMENT AIR COMPRESSOR. NEW BRINE CHILLERS WILL HAVE A SMALLER LOAD CAPACITY, AND WILL REQUIRE LESS ELECTRICAL ENERGY MODIFICATION WILL BE BY WING AND ENGINEERING IS REQUIRED FOR DIFFERENT WING CONFIGURATIONS.

SCCPE OF PROGRAM:												
	P.R	IOR	Ė	-81	÷	-82	Ε¥	-83	OUT	YEAR	-	IAL
	QTY	QTY COST	410	OTY CCST	Q17	QTY COST	QTY	QTY COST	QTY	QTY COST	QTY	QTY COST
	1 1	1	!	1 7 1 1	1	!!!!	!		!	-		1
	157	1 C. 4	362	16.2	284	10.3	72	2.4			696	39.3
BASIS FOR COST ESTIMATE:												
NONRECURRING		1.7		1.4								3.1
	251	6.7 362 13.1 284	362	13.1	284	10.0 72 2.4	72	2.4			696	32.2
		1.5		1.2								2.7
		• 5		5.		•						1.3
				1 1 1 1	1 1 1		-		-		-	
	251	251 10.4 362 16.2 284 10.3 72 2.4	362	16.2	284	10.3	72	7.7			696	39.3

METHOD JF IMPLEMENTATION: INSTALLATION - CCNIRACTCR/FIELC TEAM(S) 9 MONTHS LEAD TIME

MODIFICATION OF MISSILES FY-82 PROGRAM

FY-82 APPROPRIATION: MISSILE PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: MK-12 CARBON-CARBCN NCSE ASSEMBLY, MN-192048

MODELS OF MISSILES AFFECTED: LGM-30

DESCRIPTION/JUSTIFICATION: REPLACE CARBON PHENGLIC NOSE ASSEMBLY WITH CARBON-CARBON NOSE ASSEMBLY.

SCOPE OF PROGRAM:										(	
	PRICE	Ή	-81	<u>,</u>	-82	¥	-83	OUTY	EAR	0	T A L
	QTY COST QTY COST QT	QTY	COST	QTY	QTY COST Q	QTY	QTY COST	QTY COST	COST	QTY	QTY COST
		1	1	1	1111	†	1		* * * * * * * * * * * * * * * * * * * *		
		326	326 6.6 360 5.3	360	5.3	240	240 3.7			956	15.6
BASIS FOR COST ESTIMATE:											
NONRECURRING KITS		326	2°C 4.5	360	5,	240	326 4.5 360 5.3 240 3.7			956	2.0
DATA			• 1		1	1		1	1	1	-
TOTAL		326	326 6.6 360 5.3 240 3.7	360	5.3	240	3.7			976	15.6
METHOD OF IMPLEMENTATION:	INSTALLATICA - DEPCT	ا ا	EPCT								

6 MONTHS LEAD TIME -

### MODIFICATION OF MISSILES FY-82 PROGRAM

FY-82 APPROPRIATION: MISSILE PRCCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO: HARCENED INTERSITE CABLE SYSTEM, MN-502128

MODELS OF MISSILES AFFECTED: LGM-30

DESCRIPTION/JUSTIFICATION: HICS AND ITS ASSCCIATEC SUBSYSTEMS HAVE DEGRADED TO A POINT THAT
PIECEMEAL CORRECTIVE ACTIONS CANNOT SUSTAIN THE SYSTEM. MODIFICATION WILL INCLUDE REDESIGN OF
PRESSURE CIRCUITS, INSTALLATION OF ABOVE GROUND PRESSURE CONTACTORS, INSTALLATION OF POLE
MOUNTED COMPRESSORS AND A MODIFIED FAULT ALARM SYSTEM.

OF DROW, DAM. SC OPF

	<b>→</b>	COST	1	14.9	14.2	14.9
	101	QTY COST	1	2990	2988	2990
	FEAR	COST		4-2	?	4.2
	OUT	QTY COST	-	1059	1059	1059
	-83	QTY COST (		792 5.6 1059 4.2		5.6
	FΥ	QTY	1	792	792 5.5	192
	82	CO S T	1 1	1139 5.1	4.5	5.1
	-	QIY	1	1139	1137	1139 5.1 792 5.6 1059 4.2
	81	QTY CCST QTY COST	!!!	_		_
	FY-	<b>01</b> ∀	1 1		!	
	PRIOR FY-81	CTY CCST	1111			
	PRI	ÇIY	1 1 4		!	
SCIPE OF PROCRAM:				BASIS FUR COST ESTIMATE:	NONRECURRING KITS DATA SUPPORT EQUIP.	TOTAL

METHUD OF IMPLEMENTATION: INSTALLATION - DEPOT LEAD TIME - 12 MONTHS

MUDIFICATION OF MISSILES FY-82 PROGRAM

FY-82 APPROPRIATION: MISSILF PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NU: SYLVANIA SECURITY SYSTEM, MN-561498

MODELS OF MISSILES AFFECTED: LGM-30 F/G, MINGS II-V

DESCRIPTIUN/JUSTIFICATION: MODIFICATION WILL CLNS!ST OF CHANGING THE CUTER ZONE ALARM CONTROL DRAWER LOGIC CIRCUITRY TO DISCRIMINATE AGAINST NUISANCE ALARMS CAUSED BY ANIMALS, BIRDS, WE'DS, RAIN AND SNOW, AND TO ALARM ONLY ON HUMAN INTRUDERS. TESTS OF A NEW DESIGN PROCESSOR HAVE DEMONSTRATED A REDUCTION OF NLISANCE ALARMS OF 80 PERCENT CAN BE ACHIEVED.

A L C0ST	11.3		4.4	1:1	11.3
TOTAL QTY COST	199		11 650	1	199
OUTYEAR QTY COST				# # # # # # # # # # # # # # # # # # #	
-83 COST	3.8		3.0	1	
FY-	450		450	1	450
-82 CCST	3.8		1.6	8.	2.6 200 3.8 450 3.8
FY-	200		200		200
FY-81 FY-82 FY-83 QTY CUST QTY CCST QTY COST	2.6		2.6		7.6 200
					† 1 1
PRICR QTY CCST	111 1.1		80	.3	11 1.1
9 P F C	11		11		11
SCCPE OF PROGRAM:		BASIS FOR COST ESTIMATE:	NONRECURR ING	DATA	TOTAL

METHOJ OF IMPLEMENTATION: INSTALLATICN - FIELD LEAD TIME - 12 MONTHS

MCDIFICATION OF MISSILES FY-82 PROGRAM

FY-82 APPRUPRIATION: MISSILE PRCCUREMENT, AIR FORCE

MODIFICATION TITLE AND NC: UPGRADE TRAINERS, MN-581618

MOJELS OF MISSILES AFFECTED: LGM-30 MISSILE TRAINERS

DESCRIPTION/JUSTIFICATION: CAPACITY TO UPDATE THE BUFFER AND INTERFACE FOR LGM-30 TRAINERS IS
EXMAUSTED. THE TRAINERS MUST BE MAINTAINED IN CURRENT CONFIGURATION OF THE MEAPON SYSTEM FOR
CREW TRAINING TO PRECLUDE INCORRECT ANC/CR UNSAFE CCNDITIONS DUE TO IMPROPER TRAINING. THIS
MOD PROVIDES AN EXPANDED BUFFER TO ALLCW FOR TRAINER CONFIGURATION MAINTENANCE.

-	COST	2.5		Š	1.5 .5	2.5
-	QTY COST	23	3	7	21	23
9 4 11 >	OIY COST	!				† † † †
Č	25	!				-
20	OTY COST O	1				
) U	710	!				!
6	QTY CCST	73 2.5	•	2 .5	1.5	23 2.5
Ù	7.	23	3	7	21	23
- -	T OIY CCST Q	1				23 2.5
>	710	1 1				
90199						
9	Q17	-				
SCOPE OF PROGRAM:			BASIS FOR CUST ESTIMATE:	NONRECURRING	KITS Data	TOTAL

METHOD OF IMPLEMENTATION: INSTALLATION - CONTRACTOR

LEAD TIME - 18 MONTHS

## MODIFICATION OF MISSILES FY-82 PROGRAM

MISSILE PROCUREMENT, AIR FORCE FY-82 APPROPRIATION: MODIFICATION TITLE AND NO: WING VI GUIDANCE COOLING UNIT, MN-592718

MODELS OF MISSILES AFFECTED: LGM-30

DESCRIPTION/JUSTIFICATION: THIS PROGRAM WILL MODIFY THE EXISTING GUIDANCE AND CONTROL COOLER
AMPLIFIERS TO INSURE PROPER OPERATION OF THE MISSILE GUIDANCE SET COOLING SYSTEM FLOW CONTROL
VALVE. STRATEGIC AIR COMMAND (SAC) HAS BEEN EXPERIENCING EXCESSIVE SITE DEGRADES BECAUSE OF THIS AMPLIFIER PROBLEM.

OUTYEAR FY-83 FY-82 F Y-81 PRIOR SCOPE OF PROGRAM:

3.0 3.3 T 0 T A L QTY COST 152 152 152 QTY COST QTY COST CCST 3,3 3.0 3,3 • 7 QTY 152 152 152 COST 710 COST QTY BASIS FOR COST ESTIMATE: SUPPORT EQUIP. NONRECURA ING TOTAL DATA

LEAD TIME - 18 MONTHS DEPOT INSTALLATION METHOD OF IMPLEMENTATION:

MCDIFICATION OF MISSILFS FY-82 PROGRAM

FY-32 APPROPRIATION: MISSILE PROCUPEMENT, AIR FORCE

MEDIFICATION TITLE AND NO: AIM / UPDAIL

MODELS OF MISSILES WHEELTED: AIM-76

OF SCRIPTION ZUBTIFICATION:

T 0 T A L QTY COST 4372 T2-1	1.4 56.7 3.7	72.1
7 0 97 V 4372	4372	4372
OUTYEAR QTY COST 	1.4 475 7.2 900 12.1 1350 19.9 1537 25.9 3 2.3	25.9
0UTY QTY 1537	1537	1537
83 CCST 19.9	19.9 1537 25.9	19.9
017 017 	1350	135n
61Y COST 01Y CCST 01Y COST 	12.1 1350	14.1
FY- 017 900	006	900 TOR 4S
81 Cr51 7.2	7.2	7.2 NTRAC
FY-81 01Y CCS1  675 7.2	475	475 A + (C - 12
98158 EY-81 617 CGSI 617 GCSI 110 5.3 675 7.2	1.5	110 5.1 475 7.2 900 14.1 1350 19.9 1537 25.9 451 all LATICN - (CNIRACTOR LEW - 12 PONTHS
981 617  110	110 1.4 475 7.2 900 .3	145 1 475 7.2 90. 145 1 4 1 L AT 15 N + CENTRACTOR 1 CENTRAL - 12 MONTHS
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### MCDIFICATION OF MISSILES FY-82 PROGRAM

FY-82 APPROPRIATION: MISSILE PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NG: GLCM UPDATE

MODELS OF MISSILES AFFECTED: GLCM

DESCRIPTION/JUSTIFICATION: MISSILES REQUIRE CHANGES IC CORRECT DEFICIENCIES REVEALED DURING OPERATIONAL TESTING AND INITIAL USE. CORRECTIONS ARE INCORPORATED IN PRODUCTION AT THE EARLIEST TIME. UPDATE MOCIFICATIONS ARE REQUIRED TO MAINTAIN CONFIGURATION CONTROL OF DELIVERED MISSILES AND THOSE TOO FAR INTO PRODUCTION FOR INCORPORATION.

ر ۷	QTY COST	† ! !	32.4		32.4	32.4
101	QTY					, , ,
YEAR	QTY COST	1	23.3		23.3	23.3
001	QTY	1				
-83	CTY COST	1	1.6		9.1	9.1
-82	QTY CCST	1				1
<b>,</b>	Q1 Y	1				
.81						
F.Y.	V10	1				
108	OTY CCST Q	1				
ď	917	† †				1
COPE OF PROGRAM:				BASIS FOR COST ESTIMATE:		ı
SCOPE				BASIS	KITS	TOTAL

COMPONENT Air Force FY 1982 PROCUREMENT PR	ROJECT	DATA			Sep 80
3 INSTALLATION AND LOCATION Hughes Aircraft		4. PROJECT T			
AF Plant #44 Tucson AZ				ansion	
5 PROGRAM ELEMENT 6 CATEGORY CODE	7 PROJE	CT NUMBER	8 PF	ROJECT COS	ST (5000)
78011F 222~222			\$	48.7	
9 COS.	T ESTIMAT	res		·	<del></del>
ITEM		טיא סנ	JANTITY	UNIT COST	COST (\$000)
2. Provide supplemental cooling for treat area, Bldg 801					
28				<u> </u>	
10 DESCRIPTION OF PROPOSED CONSTRUCTION  2. Install two 12,500 CFM evaporational cooling. Install pneumated					

exhaust fans.

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3140	J			·							1010	awes t

## OTHER PROCUREMENT, AIR FORCE

For procurement and modification of equipment (including ground guidance and electronic control equipment, and ground electronic and communication equipment), and supplies, materials, and spare parts therefor, not otherwise provided for; the purchase of not to exceed nine hundred and sixty-one passenger motor vehicles for replacement only, and expansion of public and private plants, Government-owned equipment and installation thereof in such plants, erection of structures, and acquisition of land without regard to Section 9774 of Title 10, United States Code, for the foregoing purposes, and such lands and interests therein may be acquired, and construction prosecuted thereon prior to the approval of Title as required by Section 355, Revised Statutes, as amended: reserve plant and Government and contractor-owned equipment layaway \$4,013,200,000, to remain available for obligation until September 30, 1984 (5 U.S.C. 3109; 10 U.S.C. 2110, 2353, 2386, 8012, 9505, 9531-32, 31 U.S.C. 638a, 638c, 649c, 718, 50 U.S.C. 491-94 Department of Defense Appropriation Act 1981)

Other Procurement, Air Force

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dent floation gode   57-3080-0-1-05	Dudget plan (amounts for procuresent actions programed	Budget plan (amounts for irement actions programed)	its for gremed)		Obligations	
	1980 actum!	1981 est.	1962 est.	1960 actual	1961 est.	1962 est.
Program by activities: Direct:						
1. Munitions and associated equipment 2. Phicular equipment	321,460 166,181	283,245 162,002	460, 500 260, 100	323,611	208,870	431,356
SCOTING TO THE STATE STATE OF THE STATE OF T	602,44	694,466	912,800	509, 602	692,851	606, 127
	1,564,682	1,859,659	2,379,800	1,528,633	1,697,496	2, 232, 439
Total direct Reimbursable program (total)	2,654,751	2,999,372	4,013,200	8,628,040 178,140	2,692,625	3, 580, 607
0.00 Total	2, 594, 446	3, 193, 146	4,167,274	2,706,160	2, 885, 060	3,673,107
Financing: Offsetting collections from: 11.00 Federal funds	-156,998	-179,700	-160,000	-154,111	-179,700	.180,000
Non-federal sources	-24,629 -56,076	-6,074 -6,000	-8,074 -5,000	-22,461 -65,179	- 6,074 - 6,000	-9,074 -6,000
	:	:		-20,612		
21.40 For completion of prior year budget plens 21.40 Available to finance new budget plans	009		:	-588,520	-675,199	-983, 285
Reprogramment from or to	•					
	64,900			54,900		
24.40 Unobligated balance available, and of year 25.00 Unobligated balance lapsing	68, 145			675, 199 68, 145	963,285	1,297,452
39.00 Budget euthority	; •	2,999,372	4,013,200	2,652,941	2,999,372	4,013,800
Budget authority: 40.00 Appropriation rescinded 41.00 Transferred to other accounts 42.00 Transferred from other accounts		9.000,000,000,000,000,000,000,000,000,00	4,013,200	6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6	90	4, 019, 800
43.00 Appropriation (adjusted) 50.00 Respropriation	2,623,241	2,889,372	4,013,200		2,999,372	4,013,200
Relation of obligation of obligation of obligation incurred obligated belance.  40 Obligated belance.  60 Adjustments in expl				4400.1 4400.1 4740.2 477.2 47.2 600.2 400.0 400.0 400.0 400.0	2, 69 1, 623 1, 623 1, 623 1, 663 1,	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2
				7 7 7 7 7 7 7	, , , 4, 600	3, 616, 600

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			Object Classification (in thousands of dollars)			
denti	dentification code	87-3080-1-081	1980 actual   1981 ast   1982 ast   1981 actual   1981 ast   1982 ast	1980 actual	1960 actual 1981 est. 1982 est.	1982 est.
0.	Direct obligations: 31.0 Equipment	et lons:		2,628,040	2,692,625	3,680,607
0 6	Total	Total direct obligations		2, 528, 040 n n n n n n n n n	2,692,625	3,660,60
0.16	Reimbursable obligati 31.0 Equipment	obligations:		176,140	192, 435	192,500
<b>0</b>		Total obligations		2,706,180	2, 885, 060	3, 673, 107

ĄĘ	Other	Other Procurement, Air Force	, Air Force				16 JAN 61
	Progres and Finencing (in thousands of dollars)	inencing (ir	thousands of	dollers)		1978 Fiscel year program	year program
Identi	dentification code	Drodurement procurement	Budget plan (smounts for procurement setions programed)	ogramed)	, ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	Obligations	# 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		1980 mctuel 1981 est	1980 actual 1981 est	1982 est.	1980 setuel	1961 est.	1962 est.
Ā	Program by activities: Direct:						
	Munitions and associated equipment			:	8,822		
	5. Vericaler equipment  5. Electropics and telecomunications				112,01		
		:			77,081		
	property of the property of th	- 1	. 1	• !	16,671		
	Total direct			1 -	115.195	1	
	Reimbursable progrem (total)				5, 196		
10.00	Total				100 000	1 1 1 1 1 1 1 1	
}					- Po ' O V -		
.00	Financing: Offsetting collections from: Adjustment to py federal fund orders	:			9		
12.90	Adjustment to by thust fund orders				-7.349		
0.4	Adjustment to non-federal sources				2,955		
8	Mecovery of prior year obligations, obliging Unoblighted belence everibele start of year:				-17,496		
21.40	For completion of prior year budget plans				-193,366		
23.40	Chobildstad belance transferred to other	44,640					
;	Bocounts	34 200			34,900		• • • • • • • • • • • • • • • • • • • •
5 <u>2</u> 00	Unobligated balance lapsing	67, 545	- 1		57,646		
40.00	Budget suthority	000			-1,800		

	Program and Financing (in thousands of dollars)
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Other Procurement, Air Force	chousends
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identification code 67-30							
	67-3080-0-1-051	Budget procurement		its for gramed)	,	Obligations	
		1980 actual	1981 681.	1982 est.	1980 actual	1981 est.	1982 est.
Program by activities:	:4012171					•	
	Munitions and associated squipment		:		30,431	11,406	
D. FILECTOR	Mariodias excipment Riectronios and telecomunications				116,324	111,77	
4. Other	Other base melotenence and support				32, 673	6,735	
					1 1 1 1 1 1		
Total direct					809, 519	115, 790	
Relaberade	(4 program (total)			. 1	701 , 15	00',0'	
10.00 Total					240,826	125,690	
Finano 0+4	ing: Adition collections from: Aditionant to by federal fund orders				2, 268	:	•
	ment to by trust fund orders				6,617		
14.00 Adjust	=				99-		
	of prior year obligations, obligan			:	080 'E-		
21.40 For dompletion of					-395, 154	-125,890	
•		-10,800	:		-10,600		
WAY AND TABLED TONE OF WAY	ng from or to brior year budget plan 1 yelenne trensferred to other	200,000					
	_	80,000			20,000	: : : : : : : : : : : : : : : : : : : :	
24.40 Unobligated belance 25.00 Unobligated belance	d belence available, end of year d belence lepsing	10,600		!	10,600		1
40.00 Budget	Budget suthority						

ent, Air Force	
dther Procuremen	

dent f cat on gode	Budge	Budget plan (amounts for procurement actions procurement	its for gramed)		Obligations	
	1980 actual	1900 BC 100 BC 1	1982 est.	1980 actual	1981 est.	1982 est.
Program by activities:						
1. Munitions and associated equipment V. Vehiculer & Autipment B. Vehiculer & Autipment B. B. B. B. B. B. B. B. B. B. B. B. B.	321,460			284,358 125,392	17,886	19,216
	602,448		:	316,187	183,287	92,974
ACCIDED THE CONTROL OF THE CONTROL O	1,564,662	· 1	- 1	1,477,389	62,167	26, 108
Total direct Reimburesble progrem (total)	2,654,751			2,803,326	288,686	162,739
10.00 Tetal	2,894,446		1	2,045,163	338, 526	210,757
Financing:  Offseting collections from: 11.00 Feders! funds 13.00 Trust funds 14.00 Non-feders! sources	-156,998 -24,629 -58,078			-156,898 -24,629 -58,078		
27.00 Recovery of prior year obligations, oblipian 27.40 Unobligated belance available, start of year 24.40 Unobligated belance available, and of year				- 26	-549,309	-210,783
39.00 Budget suthority	2,654,741			2,654,741	!	
Budget authority: Appropriation Transferred to othe	60 60 60 60 60 60 60 60 60 60 60 60 60 6			60,400 60,400 60,000 11,000		
43.00 Appropriation (adjusted) 50.00 Resppropriation	2,625,041			29,700		

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	Program and Financing (in thousands of dollars)	thousands of	dollars)		1961 Flacal year program	eer progres
	D D D D D D D D D D D D D D D D D D D	Budget plan (amounta for procurement actions procurement	ite for Gremed)		Obligations	
	1000 BCCCB 1001 BBC	1961	1982 est.	1980 sctus)	1981 est.	1982 est.
Program by activities:						
Direct.  Munitions and associated equipment  Vehicular equipment		283,245			179,678	98,471
6. Mimorios and telecomunications aguitations		694,466			422,453	166,382
4. dther base maintenance and support equipment	- 1	1,859,659	- 1	. 1	1,568,594	169.428
Total direct Reimbureble progrem (total)		2,999,372			2,266,149	471,541
10.00 Total	1 - 1 - 1 - 1 - 1 - 1 - 1	3, 193, 146	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	1	2, 420, 644	497,821
Financing: Offsetting collections from: 11.00 Federal funds 13.00 Frust funds 14.00 Non-federal sources		-170,700 -0,074 -6,000			-179,700 -9,074 -6,000	
55			1	· · · · · · · · · · · · · · · · · · ·	772,602	274,661
40.00 Budget authority		2,999,372	:		2,989,372	

		Gther Procurement, Air Force	20 ZVD 02
		Program and Financing (in thousands of dollars)	1962 Flace: year program
		Budget plan (enounte for	@p : : @er 1 oue
dentification code	57-3080-0-1-051	CDSEGNOR SCOLING SCONDOCO	:
		1980 actual 1981 est 1982 est 1980 actual '98' est 1982 est	980 sctus! '98' est '982 est

Program by entivities:				
Direct				313 671
1. Munitions and associated squipment		460, 000		147.90
2. Vehicular equipment		200, 100		
<ol> <li>Fleatronics and telecomunications</li> </ol>		000		546 77
100m01700	 			
4. Gther base maintenance and support		000		2 037 905
\$C0#0170	 	000 A/S	. 1	
	 .,			
T CONTRACTOR	 	4,013,200		3,046,327
	 	174,074		118, 202
	 	4, 187, 274		3 164 529
10.00				
Figure 1 at 1				
Defeatting collections from				000
1 DO Federal funds	 	000,000		-0.074
		200		000
Non-federal source	 	000 0-		. 000 745
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40.00 Budget sutherity		4,013,200		

(Supplemental now requested under existing legislation)

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1dent 14	dentification code   57-3080-1-1-051	Tegbud Tegentubord	Budget plen (amounts for procurement actions procurement	its for (premed)		Ob   1001 1008	
		1960 actual 1961 eat	1981 est	1982 est	1980 BOTCO	1981 eet	1962 081
à.	Program by activities: Direct:						
	1. Munitions and associated equipment 4. Other base maintenance and aupport equipment		4			2.440	950
00 01	Total		4,000		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	044.9	07.0
21.40 24.40	Financing: Unobligated balance available, start of year Unobligated balance available, and of year					1, 560	660
40.00	Budget suthority (appropriation)		000 4			000	
71.00	Relation of obligations to outleys. Obligations incurred, net Obligated balance, start of year Obligated belance, end of year					4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
90.00						007	004

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(In horasands of Dollars)

FY 1981 Difficulties	20 130 + 17,255 20 130 + 498,658 812,230 + 11,044 11,040 + 141	7
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. And thinks out Associated Equipment; (2) Vehicular Equipment; (5) expendently problem on the contract was a feet and the contract of the object of the contract of 

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The first of the control of the Frank of the constraint on a the community of the second of the constraint of the constr Change of the transfer of more and another than Processing beautiful Other Base Maintenance and Support Equipment - \$516.1 of which \$26.8 million is for new requirements not now included in the FY 1961 program, a net increase of \$13.6 million in on-going programs, and an increase of \$311.3 million for Selected Activities, and an increase of \$311.3 million for Selected Activities, and an increase of \$104.4 million tor Special programs.

New obligational authority equal to the amount of the direct budget plan is required to finance the planned FY 1982 program.

## FY 1982 HIGHLIGHTS

due to increases in ongoing requirements such as: BSU-49 and BSU-50 Retarders, Rockeye, Laser Bomb Guidance kits, BDU-35 Program requirements for Munitions and Associated Equipment are \$460.5 million, an increase of \$177.3 million over FY tice Bombs, and the GBU-15. Program requirements for Vehicular Equipment are \$260.1 million, an increase of \$98.1 million over the program for FY 1981. tactical vehicles for use in Europe. The program also provides a slight reduction of the backlog of overaged vehicles, inclu-The FY 1982 program will provide four Rapid Runway Repair Sets for use in Europe, continue the program to modernize Red Horse squadrons, procure armored vehicles for nuclear security forces, and improve NATO interoperability by procuring European nonding passenger carrying. Program requirements for Electronics and Telecommunications Equipment are \$912.8 million, an increase of \$218.3 million over the FY 1980 program. The FY 1981 program continues the Communications Security Program, the Defense Support Program, Joint Tactical Communication Program, HF Radio Consolidation Program, and SPACETRACK. It begins the SACDIN program, Minimally Attended Radar program and JIIDS program.

over the FY 1981 program. Selected Activities realized an increase of \$311.3 million, and Special Programs increased by \$164.4 million. New items in FY 1982 account for \$26.8 million for procurement of wattmeters, 60KW, 100KW and 200KW generators, RDF Program requirements for Other Base Maintenance and Support Equipment are \$1,863.7 million, an increase of \$516.1 million mobility equipment and photo processing/interpretation system. The individual budget activity justifications elaborate on the FY 1982 program requirements and provide additional detail on the above outlined increases.

SUMMARY OF REQUIREMENTS

		(In Thousands of Dollars)	llars)
	FY 1980 Actual	FY 1981 Actual	FY 1982 Estimate
Munitions and Associated Equipment	\$ 321,460	\$ 283,245	\$ 460,500
Vehicular Equipment	186,181	162,002	260,100
Electronics and Telecommunication Equipment	602,448	994,469	912,800
Other Base Maintenance and Support Equipment	1,564,662	1,863,659	2,379,800
TOTAL DIRECT PROGRAM	654.751	3,003,372	4,013,200
Reimbursable Program	239,695	193,774	174,074
TOTAL PRUGRAM REQUIREMENTS (CURRENT)	2,894,446	3,197,146	4,187,274
Less: Portion of program to be obligated in subsequent fiscal years	549,309	742,502	1,022,771
Plus: Obligations incurred against prior year program funds	361,017	434,416	708,604
TOTAL OBLICATIONS	2,706,154	2,889,060	3,873,107

(In Thousands of Dollars)

Direct Program Requirements - FY 1982 - \$460,500

Direct Program Requirements - FY 1981 - \$283,245

Direct Program Requirements - FY 1980 - \$321,460

ACTIVITY: Munitions and Associated Equipment

## PART I - PURPOSE AND SCOPE

Provides munitions for Tactical and Strategic Forces including: munitions and associated equipment, armament training devices, spares and repair parts, and equipment modifications. This materiel is required for: (1) the training of aircrews in weapon employment, (2) maintaining pilot-crew combat proficiency; (3) training weapons personnel in maintenance, storage, movement, assembly, and loading of munitions; and (4) the procurement of War Reserve Materiel (WRM) to meet specified Inventory Objectives.

## PART II - JUSTIFICATION OF FUNDS REQUESTED

Training/High Explosive Ir diary/Armor Piercing Incendiary Cartridges; Practice Bombs (BDU-33, MK-82), Guided Bombs, Flares provide for procurement of training, base defense, and WRM Munitions and associated equipment. The FY 1982 Program in ludes funds for the procurement of Small Arms Ammunition, 20MM Training Cartridges, 30MM inese funds .

marizes the program requirements for each of the major categories of munitions and associated equipand budget year programs. The following table ment in the past, curr-

## DIRECT PROGRAM REQUIREMENTS

lars)	1982	\$ 114	182,474	208,743	8,540	42,801	17,828	\$460,500	
Thousands of Dol	1861	\$ \407	135,900	87,840	706'9	38,598	14,096	\$283,243	
Ľ	1980	\$ 4,762	193,019	90,948	3,216	13,525	15,990	\$321,460	
		ROCKETS and Launchers	Cartridges	bombs	largets	Office Items	Fuzes	lotal Direct Program Requirements	

-46.48.9

Major procurements planned in FY 1982 include:

Rockets and Launchers - Provides for procurement of practice rockets and miscellaneous rocket components to support training requirements.

Cartridges - Provides for continued procurement of 20MM training cartridges used in tactical aircraft guns, 30MM Training/High Explosive Incendiary (HEI), Armor Piercing Incendiary (API) Cartridges used in the A-10 aircraft and MXU-4A/A Engine Starters.

Bombs - The FY 1982 program provides for procurement of Laser Bomb Guidance Kits and several practice bombs as well as increased procurement of the BSU-49 and BSU-50 Air Inflatable Retarders, and procurement of the GBU-15.

Targets - Provides for procurement of aerial tow targets for air-to-air gunnery training.

Other Items - Provides for procurement of a variety of flares, Spares and Repair Parts, and Modification.

Fuzes - Provides for procurement of the FMU-112 impact or short delay fuze for retarded bombs, and the MK-339 Mechanical Time Fuze for cluster munitions.

(In Thousands of Dollars)

Direct Program Requirement - FY 1982 - \$266,100 Direct Program Requirement - FY 1981 - \$162,002 Direct Program Requirement - FY 1986 - \$166,161

ACTIVITY: Vehicular Equipment

#### PART I - PURPOSE AND SCOPE

Provide for all classes and types of direct mission related vehicles to support operational readiness of the active and reserve forces, including the capability to sustain a wartime surge of forces for the length of the conflict. Examples of vehicle for the length of the conflict. Examples of vehicle types are material handling equipment, refuelers, aircraft launch and recovery vehicles, and fire fighting equipment.

# PART II - JUSTIFICATION OF FUNDS REQUESTED

Provides for the procurement of critical materiel nandling equipment, the replacement of wornout support vehicles, improve combat vement of aircrait launch and recovery support, and replacement of overage and uneconomical vehicles in order to improve combat readiness. The following table summarizes the program requirement for each of the major categories of equipment in the past, current and budget year programs.

#### DIRECT PROCRAM REQUIREMENTS

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Thousands
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. 1961	\$ 6,759 \$	62,170	39,457	4,507	22,244	27,087 26,865 32,674	\$166,181 \$162,002 \$260,100
	1. Passenger Carrying Vehicles	2. Cargo and Utility Vehicles	3. Special Purpose Vehicles	4. Firefighting Equipment	5. Materials Handling Equipment	6. Base Maintenance Support	Total Direct Program Requirements Major procurement planned in FY 1982 include:

cessive costs to repair and maintain. The FY 1982 program is \$13.0 million more than FY 1981, however, this category represents Venicle Buy Program and urgently needed ambulances, passenger vehicle replacement has been deferred for the past two years in favor of higher priority requirements. Hence, even though the FY 82 request is \$13.0M greater than FY 81, it does not represent Passenger Carrying Vehicles - Provides for replacement of unreliable ambulances and buses which are wornout and require exless than 10% of the entire vehicle program, both in cost and number of vehicles. With few exceptions, such as the European a "get well" budget, but rather, partial replacement and funding of critical shortages.

go and numitions, tow communications equipment, and expedite delivery of aircraft spare parts to the flightline. \$16.1M, more than one half of the \$29.3M increase in this category, is attributable to M-55 and M-813 cargo trucks and high mobility vehicles; reflecting an increased emphasis or tactical and readiness operations at forward and deployed locations. \$29.4M of the FY 82 budget is for light cargo trucks to replace large, wornout equipment with new, fuel efficient units, achieving the dual bene-Largo and Utility Vehicles - This category consists of key support vehicles required to transport air crews, distribute carfits of increased reliability and reduced fuel consumption.

retucing truck procurement, on a multipear contract which began in FY 81. In addition to aircraft refuelers, this category provides for aircraft tow tractors, flightline equipment tow tractors, telephone construction and maintenance vehicles, water and oil tank trucks, and DEW line support vehicles. Reliability of special purpose vehicles has a direct impact on the readi-Special Purpose Vehicles - The FY 1982 request is \$38.4 million more than FY 1981 primarily because of increased aircraft ness of air Force units worldwide, Firefighting Equipment - Provides equipment required for aircraft crash and rescue operations and for structural fire protection of base property. The FY 1982 request is \$2.1 million more that FY 1981 primarily because of procurement of the P-8 which was not procurable in recent years. More than one half of the funds in this category (\$3.6M) are for the third year of a three year multiyear contract for fire extinguishers. fire truck.

and munitions nanding/loading operations. Rapid onload/offload of strategic and tactical airlift war material is imperative, therefore, adequate and reliable aircraft loaders and forklifts are a necessity. Current assets are a weak link in our ability to project a military force into a tactical theater. The FY 1982 budget is \$9.4M greater than FY 1981, with the \$3.9M increase Materials Handling Equipment - Provides for procurement of 461L system forklifts and cargo loaders to support aerial port tor 10,606 pound forklifts representing the largest increase.

is \$5.6 million more than FY 1981 primarily due to procurement of RKR excavators (\$1.9M) and a \$2.0M increase in vehicle modifigrounds maintenance. This category also includes equipment required for kapid Runway Repair (RRR) units. The FY 1962 program base Gaintenance Support Equipment - Provides funding for construction and maintenance equipment required for airfield and cation funds, which will permit replacement of obsolete components on 25,000 pound aircraft loaders with current state-of-the-art components. The modification program provides like-new venicles while avoiding a very expensive replacement procurement (In Thousand of Dollars)

Direct Program Requirements - FY 1982 - \$912,800

Direct Program Requirements - FY 1981 - \$694,466

Direct Program Requirements - FY 1980 - \$602,448

ACTIVITY: Electronics and Telecommunications Equipment

#### PART I - PURPOSE AND SCOPE

Provides ground electronic and telecommunications systems for command and control of the operational forces, the detection of hostile forces, and Air Force-wide communications.

# PART II - JUSTIFICATION OF FUNDS REQUESTED

minal navigational and landing guidance, intelligence, and security of Air Force activities, facilities and personnel. Also intest equipment used in the operation and maintenance of these systems, and the spares, repair parts, components, and modificacluded are items such as communications and navigation radio equipment, landline communications equipment, detection and surveillance radars, communications security devices, data processing and display equipment, meteorological equipment, peculiar essential spare and repair parts. Provision is also made for the supporting structure requirements, such as enroute and ter-The tunds requested will ensure the continued worldwide command and control of our strategic and tactical forces through procurement of prime mission electronics and telecommunications equipment, modification kits, peculiar test equipment, and tion kits needed for assurance of effective and continued operation. The following table summarizes the program requirements for each of the major categories of equipment in the past, current and budget year programs:

## DIRECT PROGRAM REQUIREMENTS

	(In Th	In Thousands of Dollars)	~
	1980	1981	1982
Communications Security Equipment	\$ 39,236	\$ 37,469	\$ 74,484
Intelligence Programs	13,970	17,595	18,046
Electronics Programs	89,556	157,370	263,995
Special Comm-Electronics Projects	208,774	147,134	173,590
Air Force Communications	41,243	116,354	165,226
DCA Programs	28,642	26,144	15,060
Organization and Base	149,816	116,518	167,083
Modufications	$\frac{31,211}{}$	75,882	35,316
Total Direct Program Requirements	\$602,448	\$694,466	\$912,800

# Major procurements planned in FY 1982 included:

the procurement and installation of devices for encryption and decryption of communications, to ensure security of voice, tele-Communications Security Equipment - \$74.5 million is requested for Communications Security Equipment. This program is for type and data communications. Included is equipment to secure data networks and tactical radios. The FY 1982 request is approximately \$37 million more than the FY 1981 program because of increased FY 82 requirements to secure new space systems and IKI-TAC equipment entering the inventory. Intelligence Programs - This program provides the equipment for worldwide USAF collection, processing, and reporting of intelligence information. Electronics Programs - This program includes electronic equipment to augment existing systems and to replace obsolete equipment for Tactical Air Control Systems, the Delense Support Program, and tracking of space objects. The FY 1962 program increases by approximately \$107 million because of planned procurement for the Defense Support Program, SACDIN, GEODSS, and the Minimally Attended Radar Program.

Included are Automatic Data Processing Equipment, Air Base Defense Systems, and equipment for operational range improvements. The FY 1982 program increase of approximately \$26 million over FY 1981 is attributable to procurements for the HF Radio Consoli-Special Comm-Electronics Programs - This program procures electronic equipment to satisfy specific mission requirements. dation Program and the Joint Tactical Information Distribution System (JTIDS).

Air Force Communications - These programs are the primary Air Force Communications terminal equipments used to provide common user facilities. Included are Air Force satellite communications terminals, equipment used in communications centers, and interoperable tactical ground equipment. The FY 1962 program increase of approximately \$49 million over FY 1961 is due to increased procurement for the Joint Tactical Communications Program (TRI-TAC). DCA Programs - These programs are in support of the Defense Communications System. Included is the Wideband Systems Upgrade Program decrease of approximately \$11 million from the FY 1981 program is due to reduced procurements in the Wideband Systems Upgrade Program, no procurements for DCS Secure Voice, and termination of the Automated Technical Control

cludes training equipment, mobility radios, and spares and repair parts. The FY 1982 program increase of approximately \$51 mil-Organization and Base - Included in this program is electronic equipment for individual Air Force units and bases. It inlion is due to increased procurements nor Training Support Equipment, Tactical C-E Equipment, Radio Equipment and new procurement of Radar Scopes. Modifications - This program is for the modification of existing electro...c equipment to increase reliability, provide a new or increased capability, or correct an operational deficiency. The FY 1982 program decreases by approximately \$41 million primarily because of reduced modifications to the Ballistic Missile Early Warning System. (In Thousands of Dollars)

Direct Program Requirements - FY 1982 - \$2,379,800

Direct Program Requirements - FY 1981 - \$1,863,659

Direct Program Requirements - FY 1980 - \$1,564,662

ACTIVILY: Otner base maintenance and Support Equipment

#### PART I - PURPOSE AND SCOPE

materials handling equipment for improving the efficiency of the Air Force supply and maintenance system, base maintenance equipment, electrical equipment, intelligence and reconnaissance equipment, spaces and modifications all for the day to day support of the forces in being and minimum quality of life for Air Force personnel. Provide ground support equipment, not otherwise provided with the major weapons systems, for operational forces and supporting structure. Included are test equipment, personal safety and rescue equipment, medical and dental equipment, and automated

# PAKT II - JUSTIFICATION OF FUNDS REQUESTED

bases depots and passenger and cargo terminals; (4) electric power equipment and area lighting; (5) base support equipment, base electronics equipment and communications apparatus; (2) personnel safety items to safeguard the lives of aircrews and other per-(7) modification kits required to assure effective and continuous operation of equipment. Requirements are computed considering level procurement of equipment with a unit cost of \$3,000 or more for medical, food service, repair, and administrative activisurveillance program and industrial prepriedness products to support production of equipment funded in this appropriation; and ties; (6) special support projects including national foreign intelligence programs, Air Force elements of the atomic energy sonnel; (3) equipment for repair and overhaul at maintenance shops, mechanization of materials handling systems at Air Force The funds requested provide for (1) test equipment for maintenance, calibration, repair and checkout of weapon systems, world-wide authorizations and available assets, including reparables and those on order. The following table summarizes the program requirements for each of the major categories of equipment in the past, current and budget year program.

#### DIRECT PROGRAM REQUIREMENTS

	uI)	Thousands of Loll	ars)
	1980	1981	1982
Test Equipment	\$ 31,061	\$ 35,716	\$ 37,242
Personal Safety and Rescue Equipment	5,033	25,696	51,432
Depot Plant and Materials Handling Equipment	24,368	34,275	39,835
Electrical Equipment	3,096	7,447	12,782
Base Support Equipment	99,351	111,858	123,913
Special Support	1,398,753	1,548,667	2,134,595
Total Direct Program Requirements	\$1,564,562	\$1,863,659	\$2,379,600

# Major procurements planned in FY 1982 include:

less than \$900,000 each. The FY 1982 program is slightly more than FY 1971 for escalation and for the procurement of equipment Test Equipment - Provides calibration standards Precision Measurement Equipment Laboratories and the Air Force Meterology Center; oscilloscopes. Signal generators electronic counters, Noise level and dispiay meters, and other test equipment costing These are new initiatives made necessary by the increasing to support Electronic warfare and Avionics Integration facilities. threat in the electronics area. Personal Safety and Rescue Equipment - Provides anti-gravity garments, chemical and biological defense protection equipment in which we are badly deficient and miscellaneous items of life support equipment costing less than \$900,000 each. The FY 1902 program is slightly more than FY 1981 because of necessary emphasis placed upon them tal and biological defense protection equipment.

force our ability to conduct war time as well as peace time operations. The increase in FY 1982 program is an effort to prevent maintenance and repair snop equipment costing less than \$900,600 each. All lacilities and equipment directly support and rein-Depot Plant and Materials handling Equipment - Includes base Mechanization Equipment (BME) for five Air Logistic Centers and various air bases; Air Terminal Mediumization equipment for one overseas and three CONUS air freight terminals; and other deterioration of our wholesale supply and maintenance facilities and to maintain equity with the advancing reconnology of our weapon systems.

The FY 1952 program increase accommodutes the precurement of bookw, lookw, and 200KW generators, which are indispensable to the support of units deployed in comput areas analed in totalin countries due to the incompatibility of commercial power with liber quipment. Electrical Equipment Provides generators and other electrical items costing less than Subo, me each.

base Support Equipment - Frovides local purchas, investment equipment with a unit cost of \$9,000 or more and centrally procured equipment such as attending barriets, cargo pallets, photographic equipment and spares and repair parts. The FY 1902 increase of 512,1 million is mainly the result of increasing Medical Scrutce in peace adequately provide for medical scrutce in peace and in wir and Productivity Enhancement capital investment to promote the national objective of increased productive and lewise operating costs.

tions, an increase in for program for beleeted Activities and the Special Update Program along with increases for virious line items within the program along with increases for virious line are based on the pational assemblates of tisk in these areas. Special Support Frogests - includes intelligence equipment and systems, industrial preparedness, and equipment modifica-

1951 PRCCKAM

CCMPAKISCH OF REQUIRENENTS AS SHOWN IN FY 1961 BUDGET WITH REQUIRENENT AS SHOWN IN FY 1982 BUDGET

#### SUMMARY OF REQUIREMENT

(In Thousands of Dollars)

	Program	Program	Increases (+)
	Requirements 1981 Budget	Requirements 1982 Budget	or becreases (-)
Munitions and Associated Equipment	\$ 301,726		-18,481
Vehicular Equipment	162,602		) N/C
	723,400		-28.934
Other base Maintenance and Support Equipment	1,809,750		+53,900
Keimbursable Program	193,774	193,774	N/C
Total Fiscal Year Program	\$3,190,661	\$3,197,146	+6,485

## EXPLANATION BY BUDGET ACTIVITY

1. Munitions and Associated Equipment (5-18.4 million)

Congress cut 30MM by \$8.9 million, and deleted FMU-112 (\$-9.5 million)

2. Vehicular Equipment (N/C)

Various internal program adjustments have been made with no net change in the total vehicle program.

3. Electronics and Telecommunications Equipment (\$-28.9 million)

Congress reduced the program by \$27 million. This included Defense Support Program (\$20 million), Tactical Signal Intelligence (\$4) and Air Force Satellite Communications (\$3 million), \$1.5 million was transferred to the Other base Maintenance Program.

4. cener base naintenence on support Equipment (+51.9 militon)

Lougress adjusted the pregram by \$40.4 willion. This included base Procured Equipment (-2.1 million), hedical and Dental Equipment (3-1.1 million), and selected from Electronics and selectional \$1.5 million was transferred from Electronics and lett.communications Equipment, and the Secretary of Defense added \$4.0 million for water treatment equipment.

). Neimbursubly Program (n/U)

COMPARISON OF FY 1981 FINANCING AS REFLECTED IN FY 1981 BUDGET WITH FY 1981 FINANCING AS SHOWN IN FY 1982 BUDGET

	(In Th	(In Thousands of Dollars)	ırs)
	Financing	Financing	Increase (+)
	Amended Budget	Budget	Decrease (-)
Program requirements	3,190,661	3,197,146	+6,485
Program requirements (Service account)Program requirements (Reimbursable)	(2,996,887) (193,774)	(3,003,372) (193,774)	(+6,485)
Less:			
Anticipated reimbursements	193,774	193,774	i
Appropriation	2,996,887	3,003,372	+6,485
a/ Ircludes proposed supplemental of \$4,000 thousand.			

# EXPLANATION OF CHANGES IN FINANCING

The Fiscal Year 1981 program has been increased \$6,485 thousand since submission of the FY 1981 budget.

1980 PROCKAM

COMPAKISON OF REQUIREMENTS AS SHOWN IN FY 1981 BUDGET WITH REQUIREMENT AS SHOWN IN FY 1982 BUDGET

#### SUMMARY OF REQUIREMENTS

<pre>Increases (+)</pre>	-1,657 -5,298 -32,793	-4,342	-56,848	
Program Incre Requirements 1982 Decre	\$ 321,460 166,181 602,448 1.564,663	239,695	\$2,894,446	
Program Requirements 1981	\$ 323,117 171,479 635,241 1,569,004	252,453	\$2,951,294	
	Д.,,		T VIII AND THE STATE OF THE STA	
Munitions and Associated Equipment	Venicular Equipment Electronics and Telecommunications Equipment Other Base Maintenance and Support Equipment Reimbursable Program	Total Fiscal Year		

# EXPLANATION BY BUDGET ACTIVITY

# 1. Munitions and Associated Equipment (\$-1.7 million)

Congress approved reprogramming of \$11.4M and \$4.6d to Military Personnel and Operation and Maintenance respectively. Also approved was a transfer of \$16.1M from prior years to FY 1986 for the GBU-15. Congress disallowed \$2.4M of the FY 1980 supplemen-

# 2. Vehicular Equipment (5-5.3 million)

53.6 million was reprogrammed to the Air National Guard Personnel Appropriation, and \$1.7 million was reprogrammed to the Opera-tion and Maintenance, Air Force appropriation.

# 3. Electronics and Telecommunications Equipment (\$-32.8 million)

A \$28 million dollar reduction resulted from reprogramming to higher priority Air Force requirements. \$2 million was reprogrammed to the Operation and Maintenance, Air Force appropriation, \$1 million was transferred to the National Guard, \$1 million was transferred to the Claims Account, \$19 million was reprogrammed to Military Personnel Air Force appropriation, and \$5 million was reprogrammed to a Classified Project. Congress reduced the FY 1980 Supplemental Request by \$5 million.

# 4. Other Base Maintenance and Support Equipment (\$-4.3 million)

Congress approved reprogramming of \$2.1M from Other Procurement to Military Personnel. Congress disallowed \$7.2M of the FY 1980 Supplemental Request. The Secretary of Defense approved a \$5.0M (classified) transfer to this account.

# 5. Reimbursable Program (\$-12.7 million)

The decrease of \$12.7 is due to receipt of actual customer orders in FY 1979.

COMPARISON OF FY 1980 FINANCING AS REFLECTED IN FY 1981 BUDGET WITH FY 1980 FINANCING AS SHOWN IN FY 1982 BUDGET

	(In The	(In Thousands of Dollars)	rs)
	Financing Per FY 1981	Financing Per FY 1982	Increase (+) or
	Amended budger	buager	Decrease (-)
Program requirements	2,951,294	2,894,446	-56,848
Program requirements (Service account)Program requirements (Reimbursable)	(2,734,841) (252,453)	(2,654,751) (239,695)	(-80,090) (-12,758)
Less:			
Anticipated reimbursementsTransferred from other accountsReappropriation	252,453 66,100 <u>a/</u> 13,600	239,705 51,900 29,700	-12,748 -14,200a/ +16,100
Add:			
Transferred to other accounts	14,890	068,09	+46,000
Appropriation	2,634,031	2,634,031	ſ
$\underline{\mathtt{a}}'$ Includes proposed transfer to finance the FY 1980 proposed supplemental amendment,	l amendment,		

# EXPLANATION OF CHANGES IN FINANCINC

The Fiscal Year 1980 Program has been decreased \$56,848 thousand since submission of the FY 1981 budget. Adjustments by category of financing are explained below:

- The decrease of \$12,748 thousand is due to receipt of actual customer orders in 1. Anticipated Reimbursements.
- 2. Transferred from other accounts. \$33,383 thousand was transferred from Shipbuilding and Conversion, Navy, FY 1980, and \$18,517 thousand was transferred from Aircraft Procurement, Air Force, FY 1980. Both transfers were in accordance with P.L. 96-304 of the FY 1980 Supplemental Appropriations Act.
- 3. Reappropriation. The increase of \$6,000 thousand is the result of redefining the Congressional directed transfer from FY 1978 Other Procurement, Air Force; and \$10,100 thousand from RDT&E, Air Force, FY 1979 to FY 1980 Other Procurement, Air Force, as a reappropriation.
- 4. Transferred to other accounts. \$1,400 thousand was transferred to Claims Defense Agencies FY 1980; \$32,829 thousand to Military Pers, Air Force FY 1980; \$4,500 thousand to ANG Pers, Air force fY 1980; and \$7,271 thousand to 06M FY 1980 in accordance with Section 734 of the FY 1980 DoD Appropriation Act.

ANALYSIS OF UNOBLICATED BALANCES - 30 SEPTEMBER 1982
SUMMARY BY CATEGORY
(In Millions of Dollars)

	FY	FY 1981	FY 1982	Total Un	% of lotal Unobligated
Milita	Military Interdepartmental Purchase Requests: (MIPRs)	\$40.2	\$55.2	\$95.4	5.4%
Comple	Completing Contractual Arrangements:				
С	Specification Definitions	110.1	151.4	261.5	14.8%
٠. م	Price Redeterminations	48.3	6.99	114.8	6.5%
	c. Definitization of Contracts	119,9	164.6	284.5	16.1%
Full	Full Funding Policy:				
Г	Delayed/Revised Program Release	344.5	473.5	818.0	76.3%
	Engineering Changes	81.1	111.5	192.6	10.9%
•	TOTAL UNOBLIGATED FY 1982	\$744.1	\$1,022.7	\$1,766.8	

 $\underline{1}/$  Includes \$1,560 thousand unobligated proposed supplemental appropriation

#### EXPLANATION

Procurement funds are available for obligation for three years because of the extensive lead time required to develop detailed specification, issue Requests for Proposals (RFPs) and to negotiate and finalize contracts for procurement of investment equipment. Unobligated balances are required for programmed and needed items on which contracts have not reached the obligational stage by the end of the fiscal year because of the procurement process.

The following are illustrative of the reasons which will cause unobligated balances at the end of each

- is received from the other military service. Frequently, contractual arrangements will have been completed and the obligation incurred but notification from the other service is not received in time for recording in Air Force quest one of the other military services to procure Air Force requirements in conjunction with their own or with Funds to support these requests remain unobligated until notification of contract Military Interdepartmental Purchase Requests (MIPRs) (\$95.4 million) - These documents are used records prior to or at the end of a fiscal year. those of another service.
- 2. Completing Contractual Arrangements:
- Specification Definitions (\$261.5 Million) Unobligated funds result when specifications for newly items cannot be definitized in time to permit contract negotiation prior to or at the end of the fiscal introduced
- mined and obligated prior to the end of the fiscal year. Funds are reserved for these purposes when upward adjust-ments seem likely; however, obligation does not occur until a formal redetermination has been agreed upon and the Price Redeterminations (\$114.8 million) - Prices are redetermined at intervals throughout the life of large contracts, the rewards and penalties of multiple incentives (cost, performance and schedule) cannot be deter-Final obligation for contracts must await negotiations on agreed target-ceiling formulae. contract amended. Unobligated funds at year end result.
- the total program value with the balance remaining committed but unobligated pending definitization and negotiation ders may occasionally be initiated under letter contracts. The letter contract generates a partial obligation of c. Definitization of Contracts (\$284.5 million) - Procurements of complex systems and large material orof the detailed contract terms. These actions can carry over the end of a fiscal year and result in unobligated

- appropriations and funds must be available in a given fiscal year for obligation, committed or set aside in a reserve account in an aggregate amount sufficient to complete the procurement of a specified number of end items and advance procurement for approved programs. Unobligated balances at the end of a fiscal year are a conseprovides that This policy, enunciated in DoD Directive 7200.4 (October 30, 1969) quence of this policy and accrue in the following categories: adequate
- a. Delayed/Revised Program Release (\$818.0 million) Adjustments in quantities or specifications of of reprogramming requests which can delay program release and direction until well into the fiscal year, thus defunds by the end of the fiscal year. Also, approved and funded programs are sometimes other equipment to meet changing situations or to exploit engineering improvements generally require prior approval delayed/undirected beyond 30 September pending decision on an aspect of the program that has arisen requiring resothe obligation of lution before proceeding.
- provision is made in procurement programs, as a percentage of the estimated cost of the item, to cover requirements. Engineering changes are not definitive requirements known in advance and they cannot be obligated until the change is authorized and directed. These changes occur throughout the life of the production contract b. Engineering Changes (\$192.6 million) - Based on prior experience with systems of like nature and comengineering improvements and design changes which will occur as a result of manufacturing experience of Air and result in unobligated balances. plexities,

OTHER PROCUREMENT, AIR FORCE DATA SHEETS TABLE OF CONTENTS

Nomenclature	P-1 Line Item No.	<pre>\$ Millions FY 82</pre>	Page No.	Nomenclature	P-1 Line Item No.	\$ Millions FY 82	Page No.
MUNITIONS AND ASSOCIATED EQUIPMENT	IPMENT						
Caliber .38	2	7.4	267	Truck, Stake/Platform	51	3.4	289
20MM Training	7	13.0	268	Truck, Cargo-Utility 3/4T,4x4		4.7	290
30MM Training/30MM HEI/					54	3.7	291
30MM API Cartridges	8, 9, 10	128.9	269	Truck, Pickup, Compact	55	5.6	262
Chaff RR-170 Cartridge		4.3	270	Truck, Panel, Multi-stop	95	5.8	293
MXU-4A/A Engine Starter	13	11.3	271		57	3.1	294
Cartridge, Impulse CCU-44B	7.	L. 4	272	Truck, Carry-All	58	3.2	295
MK-82 Bomb, Empty	16	18.7	273	Truck, Cargo, 2 1/2 T,			
BSU-49 Inflatable Retarder	17	17.2	274	6x6, M35	59	13.1	296
BSU-50 Inflatable Retarder	18	6.6	275	Truck, Cargo 5 T, M813	09	11.6	297
Cluster Bomb, MK-20(Rockeye)	19	25.0	276	Tractor,	99	6.1	298
Laser Bomb Guidance Kits	20	51.6	277		99	8.6	299
GBU-15	21	51.3	278	Truck, Telephone Maintenance		3.4	300
Bomb, Practice, BDU-33	22	32.3	279	Truck, Tank, Fuel,			
Aerial Tow Target	56	8.5	280	5,000 Gal, R-9	73	33.8	301
Flare, IR, MJU-7B	59	1.4	281	Truck, Tank, Fuel, M-49	7.1	5.2	302
M-206 Cartridge Flare	31	14.8	282	Truck, Oversnow, Tracked	92	3.3	303
B-83 Trainer	33	6.8	283	Truck, A/C Tow, MB-2	77	6.5	304
FMU-112	04	7.6	284	Tractor, Tow, Flightline	79	9.9	305
MK-339 Mech Time	41	7.1	285	Truck, Forklift, 4,000 lb			
				GED/DED 144"	89	3.2	306
VEHICULAR EQUIPMENT				Truck, Forklift, 6,000 lb	06	5.8	307
				Truck, Forklift, 10,000 lb	91	10.9	308
Bus, 28 Passenger	<u> </u>	O. 0	286	25K A/C Loader	116	3.5	309
bus, 44 rassenger Truck Ambulance	- 6 1 =1	* w	288 288				
	•	'n					

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Modifications	108	7.7	313	and Control Sys (WWCCS) ADPE		11.9	331
				MAC Integrated Management Sys	141	3.6	332
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Tri-Tac	114	11.7	316	HF Radio Consolidation	148	22.7	337
Traffic Control and Landing	122	7.0	317	Space Shuttle	151	6.7	338
Tactical Air Control System				Combat Supply System	152	5.1	339
Improvements (TACSI)	123	8.9	318	Restricted Airspace Control	154	7.1	340
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Minimally Attended Radar				Joint Tactical Communications			
System	131	46.2	324	Program (TRI-TAC)	160	92.1	344
Tactical SIGINT Support	132	7.6	325	USREDCOM	161	8.7	345
Transportable Ground Intercept				Strategic SATCOM System	162	11.9	346
Facility (TGIF)	133	33.9	326	Teletypewriter Equipment	165	7.9	347
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(PPI) Scope	174	6.1	351	Generators, 200kw	206	<b>17.</b> 11	362
Tactical C-E Equipment	176	13.6	352	Power Plant A/E 24 U-8	209	4.2	363
Radio Equipment	178	11.7	353	Base Procured Equipment	211	27.7	364
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Class IV Modifications	181 -	22.5	354	Barrier Aircraft			
Traffic Control and Handling				Arresting System	215	7.7	366
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Ballistic Missile Early Warning	₽v.			System (CASS)	216	3.1	367
System (BMEWS)	184	8.5	356	Pallet, Air Cargo, 108"x88"	217	10.3	368
				Productivity Enhancement	224	10.0	369
OTHER BASE MAINTENANCE AND SUPPORT	PORT EQUIPMENT	MENT		RDF Mobility Equipment	526	12.4	370
				Scientific/Technical			
Base/ALC Calibration Package	186	9.4	357	Intelligence	230	3.1	371
Signal Generator, 0.5 to 512 MHZ		6.1	358	Air Force Technical			
Laser Acquisition Device (LAD)	200	9.9	359	Application Center Photo Processing/	232	11.8	372
				Interpretation System	233	5.8	373
				Industrial Preparedness	237	10.5	374

#### MUNITIONS DATA SHEET

P-1 Line Item: 5

Nomenciature: Caliber .38

Mission Description: This cartridge is used in the caliber .38 special revolver. It is the small arms training round used to train all USAF personnel who are required to be qualified in the use of this revolver, i.e., aircrews, security, base defense and mobility personnel.

(In Millions of Dollars)

Cost Data:

 FY 198U
 FY 1981
 FY 1982

 QLY
 Amt
 QLY
 Amt

 29,594
 5.6
 32,278
 7.4

Basis for FY 1962 Request: The required to support projected peacetime consumption during the FY 1982 funded delivery period, and maintain pipelineestock levels.

Wolf: Quantities in Thousands

CTHER PROCUREABILT, AIR FORCE MUNITIONS DATA SHEET

P-1 Line Item: 7

Nomenclature: 10 hm Training

hission/Description: The 20 MM ammunition with inert projectiles is used for training aircrews on a variety of aircraft gun systems.

(In Millions of Dollars)

FY 1900

QLY Ant

Cost Data:

Annt 12.9

3,557

FY 1982

basis for FY 1502 Request: The request is required to support projected peacetime consumption during the FY 1962 funded delivery period, and maintain pipeline/stock levels.

2,471

7,987

NOTE: Quantities in Inousands

#### MUNITIONS DATA SHEET

P-1 Line Item: 8, 9, 10

Nomenclature: 30 MM Training/30 MM HEI/30 MM API Cartridges

Mission/Description: The 30 MM Cartridge used with the GAU-8 Gun System is designed to be effective against a broad spectrum of close Air Support (CAS) targets. The GAU-8 is specifically designed to defeat Soviet medium/heavy tanks, which are critical CAS targets in a European conflict. The gun is effective against softer CAS targets, such as personnel, armored personnel carriers, and trucks. The GAU-8 gun fire can be placed closer to triendly troops than other weapons due to its accuracy, small lethal radius, and low probability of gross error. This contributes to the effectiveness of the A-10 aircraft for which it was designed.

	<u>PY 1982</u> <u>Qty</u> Amt	3,500 40.5 500 10.8	3,100 77.6
(In Millions of Dollars)	$\frac{\text{FY } 1981}{\text{QLy}}$	3,500 37.2 500 8.6	3,100 65.2
	6Y 1980 Qty Amt	3,450 30.1 1,458 18.8	5,883 98.1
Cost Care.		Traibing Series Series	ingo en (HEJ) Armor Plefeing ingond (API)

the FT 1952 Request: The request is required to support projected peacetime consumption during the FY 1982 funded delivery to many profilms stocklevels, and procure an increment of the WRM inventory objective. 

WIE: Quantities in Thousands

#### MUNITIONS DATA SHEET

P-1 Line Item: 11

Nomenclature: Cb - xk-17C Cartridge

Mission/Descript. The cartridge is used to expel chaif as an electronic countermeasure against radar controlled threats. The chaft is ejected from an AN/ALE-40 disperser on the A-7, A-10 and F-4 aircraft.

1982	Amt	4.3
FY	Qt y Amt	1,906
1981	Qt y Amt	ı
FY 1	Qty	1
1950	Qty Amt	4.7
FY	Qty	1,358

(In Millions of Dollars)

Cost Data:

basis for FY 1962 Kequest: Required to support projected peacetime consumption during the FY 1982 funded delivery period and procure an increment of the War Reserve Nateriel (WPM) inventory objective.

Note: Quantities in thousan's

#### MUNITIONS DATA SHEET

P-1 Line Item: 13

Nomenclature: MXU-4A/A Engine Starter

Mission/Description: The MXU-4A/A engine starter is installed in aircraft starter assemblies to start turbojet engines on B-52, KC-135, F-111, F-4, F-105 and F-106 aircraft.

Cost Data:	

FY 1982	Qty Amt	90 11.3
FY 1981	Qt.y Amt	35 4.1
FY 1980	Qty Amt	6. 3

(In Millions of Dollars)

busis for FY 1982 Request: To support peacetime requirements during the FY 1982 funded delivery period without drawing down peacetime operating and war Reserve materiel (WRM) stock levels.

#### MUNITIONS DATA SHEET

2-1 Line Item: 14

Nomenclature: Cartridge, Impulse CCU-44/B

hission/Description: This cartridge replaces the ARD-863-1 impulse cartridge. It is used on the A-7, A-10, B-52, F-15 and F-16 to jetison aircraft external stores such as bombs and rockets.

Cost Data:

У 1982	Qty Amt	4.7
î±4 }	<u>Qty</u>	1,536
1981	Qty Amt	3.5
FY	Qty	1,331
1930	Amt Amt	ĺ
FY	Qty.	1

Basis for FY 1982 Request: To support projected peacetime consumption during the FY 1982 funded delivery period, maintain pipeline/stock levels, and procure an increment of the War Reserve Materiel (WRM) inventory objective.

Note: Quantities in thousands

#### MUNITIONS DATA SHEET

P-1 Line Item: 16

Nomenclature: MK-82 Bomb, Empty

Mission/Description: Inis is a 500 pound general purpose bomb filled with concrete, vermiculite or sand to simulate the drop trajectory of a high explosive bomb. It is used for aircrew training with proficiency.

(In Millions of Dollars)
Cost Data:

FY 1982	Qty Amt	35.000 18.7
FY 1981	Qty Amt	20,000 10.0
FY 1950	Qty Amt	14,196 6.2

Basis for FY 1982 Request: The request is required to support projected peacetime consumption during the FY 1982 funded delivery period and maintain a pipeline/stock levels.

MUNITIONS DATA SHEET

P-I Line Item: 17

Nomenclature: BSU-49 Inflatable Retarder

Mission/Description: The BSU-49 Inflatable Retarder provides the USAF with the capability for supersonic, low-level delivery of MK-82 500 pound general purpose bombs. The pilot has the option of either high or low drag release. It consists of two major assemblies; a low drag stabilizer and a ram-air inflated retardation device which is stored in the stabilizer when not deployed.

(In Millions of Dollars)

Cost Data:

 FY 1980
 FY 1981
 FY 1962

 Qty
 Amt
 Qty
 Amt

 1,009
 3.56
 3,300
 4.9
 22,997
 17.2

Basis for FY 1982 Request: The FY 1982 request provides for an increment of War Reserve Materiel (WRM) stocks.

#### MUNITIONS DATA SHEET

P-1 Line Item: 18

Nomenclature: BSU-50 Inflatable Retarder

Mission/Description: An inflatable retarder for the MK-84 bomb employed in either high or low drag modes, at the pilot's option. The two main assemblies are the high drag retarder and low drag stabilizer. The stabilizer is based on a conventional cruciform finned structure. The retarder is a ram-air inflated enclosed vehicle made of nylon fabric and webbing construction which will be stored within the stabilizer.

Cost Data:

(In willions of Dollars)

1982	Amt	6.6
FY	Qty Amt	4,800
1981	Qty Amt	2.1
FY	(tz	200
080	Amt	1
FY 1980	्र इ	ı

The FY 1962 program will procure an increment of the War Reserve Materiel (WRM) inventory objective. basis for FY 1952 Request:

#### MUNITIONS DATA SHEET

P-1 Line Item: 19

Nomenclature: Cluster Bomb, MK-20 (Rockeye)

Mission/Description: This is a free-fall weapon consisting of a MK-7 dispenser with a MK-339 fuze. The dispenser is loaded with 247 MK-118 anti-tank bombs. The fuze initiates a linear shaped charge which cuts the dispenser into two halves allowing the MK-118 bombs require 130 to 200 knots velocity to arm and when the bomb strikes a hard target, the electronic detonator ignites the shaped charge warhead.

(In Millions of Dollars)
Cost Data:

1982	Qty Amt	25.0
FY	<u>9t7</u>	7,200
=1	Amt	ı
FY 1981	962	í
	빔	-
1980	₽ 	21.
FY	Qty Amt	7,200

basis for FY 1982 Request: The request is required to support projected peacetime consumption during the FY 1982 funded delivery period, maintain pipeline/stock levels, and to procure an increment of the War Reserve Materiel (WRM) inventory objective.

MUNITIONS DATA SHEET

P-1 Line Item: 20

Nomenclature: Laser Bomb Guidance Kit

Mission/Description: The laser bomb guidance kit consists of a field installed computer control group and an airfoil group for MA-82, MK-83 or MK-64 bomb. The control group uses a silicon seeker head which detects laser energy reflected from a target being illuminated by either a ground or an airborne laser target designator and directs the laser guided bomb on a line-of-sight trajec-

(In Millions of Dollars)

Cost Data:

1982	Amt	51.6
FY	Qty Amt	4,300
1981	Qty Amt	31.9
FY	QE y	4,300
FY 1980		28.1
FY	3	4,300

basis for FY 1962 Request: Required to support projected peacetime consumption during the FY 1982 funded delivery period, main-tain pipeline/stock levels, and procure an increment of the War Reserve Materiel (WRM) inventory objective.

MUNITIONS DATA SHEET

P-1 Line Item: 21

Nomenclature: GBU-15

Cost Data:

Mission/Description: The GBU-15 Modular Guided Weapon System is a family of guidance, control, and airframe modules which, when combined with a warhead, can be configured as different weapons tailored for various attack and target conditions. The Cruciform Wing Weapon (CWW) is optimized for low angle attack. The data link permits the launch crew to monitor progress of the weapon to the target and to update the impact point, if necessary.

 (In Millions of Dollars)

 FY 1980
 FY 1981
 FY 1982

 Qty
 Amt
 Qty
 Amt

 35
 16.1
 65
 26.7
 240
 51.3

Basis for FY 1982 Request: The FY 1982 program will procure an increment of the War Reserve Materiel (WRM) inventory objective.

#### MUNITIONS DATA SHEET

P-1 Line Item:

Bomb, Practice, BDU-33 Nomenclature: Mission/Description: The 25-pound practice bomb has a teardrop shaped metal body with a tube cavity lengthwise through the center, a conical afterbody, and a cruciform type fin in the aft end of the bomb body. A firing pin, inertia tube, flag assembly and cotter pin are separate components of the bomb body. This Lumb is used to provide the Tactical Air Force with aircrew weapons delivery training.

	FY 1982	Amt	32.3
		Qty	1,724,560
f Dollars)	981	Amt	12.2
(In Millions of Dollars)	FY 1	Qty Amt	842,560
	0861	Amt	10.9
	FY	Qty Amt	866,920

Cost Data:

basis for FY 1982 Request: The request is required to support projected peacetime consumption during the FY 1982 funded delivery period, and maintain pipeline/stock levels.

#### MUNITIONS DATA SHEET

P-1 Line Item: 26

Nomenclature: Aerial Tow Target

Mission/Description: The Aerial Tow Target System will be employed as a towed aerial target for use by tactical fighters and interceptor aircrews in developing and maintaining air-to-air gunnery skills. The system will also be used in operational testing and evaluation of guns, gunsights, ammunition, and in tactics development.

( ) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CS TO SUCT IN C	(	

Cost Data:

FY 1982	Qt y Amt	642 8.5
FY 1981	Qty	6.00
FY 1980 •	Qty Amt	142 3.2

Basis for FY 1982 Request: Procurement is required to support projected peacetime consumption during the FY 1982 funded delivery period and maintain pipeline/stock tevels.

The second second second

#### MUNITIONS DATA SHEET

P-1 Line Item: 29

Nomenclature: Flare, iR, MJU-7B

hission/Description: Ine NJU-75 is an infra-red countermeasures flare used by the F-4 aircrait to counter heat seeking missiles. It is dispensed from the AN/ALE-40(V).

(In Millions of Dollars)

cost Data:

1982	Amt	4.1
FY 1982	Qty	82,000
981	Qty Amt	4.0
FY 19	Qt.y	72,420
080	Appl	1
FY 19	Qt y Amt	1

basis for FY 1982 Request: Procurement required to support projected peacetime consumption during the FY 1982 funded delivery period, maintain pipeline/stock levels, and procure an increment of the War Reserve Materiel (WRM) inventory objective.

#### MUNITIONS DATA SHEET

P-1 Line Item: 31

Nomenclature: M-206 Cartridge Flare

mission/bescription: The flare is designed for the AN/ALE-40(V) countermeasures dispenser system. It will provide self-protection against homing threats for the HH-3, A-7 and A-10 aircraft.

cost Data:

 FY 1980
 FY 1981
 FY 1982

 Qty
 Amt
 Qty
 Amt

 1,600,000
 14.6
 1,000,000
 14.8

basis for FY 1952 Request: The request is required to support projected peacetime consumption during the FY 1962 funded delivery period, maintain pipeline/ stock levels, and procure an increment of the War Reserve Materiel (WRM) inventory objective.

MUNITIONS DATA SHEET

33 P-1 Line Item: Nomenclature: B-83 Trainer

Mission/Description: A strategic gravity bomb produced by Department of Energy for use in nuclear training. Various configurations are used in training for explosive explosive dispusal, maintenance, loading and handling personnel. The training is essential for developing and maintaining proviciency.

(In Millions of Dollars) Cost Data:

FY 1962 99 Amt FY 1981 Qty A FY 198C Qty Amt

basis tor FY 1982 Kequest: The inventory objective is 91 of which all will be on hand at the end of the FY 1982 funded delivery period.

DEPUTY CHIEF OF STAFF RESEARCH DEV AND ACQUISITION (A--ETC F/6 5/1 DEPARTMENT OF THE AIR FORCE JUSTIFICATION OF ESTIMATES FOR FISC--ETC(U) AD-A099 029 JAN 81 RDXM-AC-82-3 NL UNCLASSIFIED 4 or 4 AD 4 049029 END DATE 6-BI

MUNITIONS DATA SHEET

P-1 Line Item: 40

Nomenclature: FMU-112

Mission/Description: This is an electronic impact or short delay fuze designed to fit the standard 3-inch fuze well on bombs such as the M-117 and the MK-80 series guided or unguided bombs. It is usable on both high and low performance aircraft.

Cost Data:

 FY 1980
 FY 1981
 FY 1982

 Qty
 Amt
 Qty
 Amt

 3000
 10.0
 5300
 9.7

(In Millions of Dollars)

Basis for FY 1982 Request: Procurement is required to support projected peacetime consumption during the FY 1982 funced arrivery period and procure an increment of the War Reserve Materiel (WRM) inventory objective.

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MUNITIONS DATA SHEET

P-1 Line Item: 41

Nomenclature: MK-339 Mech Time

Mission/Description: The MK-339 is a mechanical time fuze used with chaff and leaflet bombs and cluster munitions which utilize the SUU-30 dispenser. It provides two pre-set pilot-selectable delay fuze function times (arming wires) each settable from 1 to second increments.

Cost Data: (In Millions of Dollars)

 FY 1980
 FY 1981
 FY 1982

 Qty
 Amt
 Qty
 Amt

 17,247
 4.5
 25,000
 7.1

Basis for FY 1982 Request: Procurement is required to support projected peacetime consumption during the FY 1982 funded delivery period, to maintain pipeline/stock levels and to procure fuzes for selected cluster munitions currently in the War Reserve Materiel (WRM) stockpile to increase their operational effectiveness.

#### VEHICULAR DATA SHEET

P-1 Line Item: 45

Nomenclature: Bus, 28 Passenger

Mission/Description: Inis commercial bus eq ips our bases with a fuel efficient diesel vehicle for base sbuttle bus operations and transport of large aircraft crews and related flight gear. It is also used to transport dependent school children as well as large groups during military exercises.

## (In Millions of Dollars)

Cost Data:

FY 1982	Qty Amt	107 4.0
FY 1981	Qty Amt	61 2.2
FY 1980	Qty Ant	56 1.8

Basis for FY 1982 Request: The inventory objective is 1421 with a procurement requirement of 513 through the FY 1982 funded delivery period. 107 are budgeted in FY 1982, deferring 406 to subsequent years.

#### VEHICULAR DATA SHEET

P-1 Line Item: 47

Nomenclature: Bus, 44 Passenger

Cost Data:

Mission/Description: This commercial bus supplies our bases with a large capacity, fuel efficient, diesel vehicle which is used primarily as a school bus for dependent children. It is used also to transport passengers to and from aircraft and terminals where distant aircraft parking or weather dictates.

	1982	Qty Amt	81 4.8
		ĘŽ	81
(In Millions of Dollars)	FY 1981	Qty Amt	24 1.9
(In Mil.	FY 1980	Qty Amt	39 2.8

Basis for FY 1982 Request: The inventory objective is 643 with a procurement requirement of 316 through the FY 1982 funded delivery period. The FY 1982 budget quantity is 81, deferring 235 to subsequent years.

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VEHICULAR DATA SHEET

P-1 Line Item: 49

Nomenclature: Truck Ambulance

Mission/Description: This is a commercial chassis, four wheel drive, field ambulance, powered by a gasoline engine. It performs medical evacuation and movement of patients under field conditions and in aircraft crash rescue operations, is equipped with medical life support equipment and air conditioning, and has sufficient capability for four litter patients or eight seated patients.

Cost Data: (In Millions of Dollars)

1982	Qty Amt	3.0
FY	ŞĘ,	102
81	Amt 	2.5
FY 19	Qty Amt	06
	•	
1980	Qty Amt	'
FY	Q£Z	1

Basis for FY 1982 Request: The inventory objective is 640 with a procurement requirement of 252 through the FY 1982 funded delivery period. The FY 1982 quantity is 102 deferring 150 to subsequent years.

VEHICULAR DATA SHEET

P-1 Line Item: 51

Nomenclature: Truck, Stake/Platform

hission/Description: This vehicle is a gasoline engine driven, commercial vehicle with enclosed cat, steel and wood body, and removable stake siding and end boards. Much of its use entails delivery of critical parts, equipment and other cargo to flight removable stake siding and end boards. Much of its use supply customers. It is purchased primarily in the 1 1/2 ton 4x2 confiline maintenance activities, hospitals, and other base supply customers. It is purchased primarily in the 1 1/2 ton 4x2 configuration, however, where mission permits, the downsized 1 ton version is purchased for increased fuel economy and maneuverability.

(In Millions of Dollars)

Cost Data:

Y 1982	Qty Amt	3.4
Ē4 į	Ş	291
31	And	3.8
FY 19	Qty Amt	326
1980	Qty Amt	4.1
FY	l Si	\$05

Basis for FY 1982 Request: The inventory objective is 4,513 with a procurement requirement of 828 through the FY 1982 funded delivery period. 291 are budgeted in FY 1982, deferring 537 to subsequent years.

VEHICULAR DATA SHEET

P-1 Line Item: 52

Nomenclature: Truck, Cargo-Utility, 3/6T, 4x4

and radar sites. This vehicle permits crews and tools/cargo to travel together, precluding the need for two vehicles for trips to Mission/Description: A commercial, four-door, six passenger cargo truck with four wheel drive and automatic transmission. The vehicle is used in direct support of strategic weapons systems (silo crew changes), fighter and bomber aircraft alert crews and safety personnel. The four wheel drive is critical to off-highway winter operations to isolated missile, communications, weather sites up to 150 miles from a base.

Cost Data: (In Millions of Dollars)

 FY 1980
 FY 1981
 FY 1982

 Qty
 Amt
 Qty
 Amt

 256
 2.4
 235
 2.5
 426
 4.7

Basis for FY 1982 Request: The inventory objective is 2619 with a procurement requirement of 747 through the FY 1982 funded delivery period. 426 are budgeted in FY 1982, deferring 321 to subsequent years.

VEHICULAR DATA SHEET

P-1 Line Item: 54

Nomenclature: Truck, Pickup 1/2T, 4x2

Mission/Description: This is a standard commercial 1/2 ton pickup truck with a six cylinder gasoline engine, two wheel drive and an automatic transmission. In addition to general transportation of cargo and personnel, it supports flight line, base maintenance, supply and security police operations.

Cost Data:

 FY 1980
 FY 1981
 FY 1982

 Qty
 Amt
 Qty
 Amt

 732
 4.2
 1087
 6.6
 450
 3.7

Basis for FY 1982 Request: The inventory objective is 9198 with an FY 1982 procurement requirement of 3248. 450 are budgeted in FY 1982, deferring 2,798 to subsequent years.

#### VEHICULAR DATA SHEET

P-1 Line Item: 55

Nomenclature: Truck, Pickup, Compact

Mission/Description: A commercial, 4x2 compact pickup truck, used by virtually all base activities to transport light cargo and personnel. Where possible it replaces the 1/2 ton pickup truck as part of an Air Force program to selectively downsize to more fuel efficient vehicles without causing adverse mission impact.

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ou	
illior	
Mi	
(In Mi]	
$\Box$	
œ	
Cost Data	
بد	
308	
_	

1982	Ant	5.6
FY	Qty Amt	1073
	峀	7.
FY 1981	Qty Amt	94 3
	প	9
0	Amt	2.4
FY 198	Qty Amt	461

Basis for FY 1982 Request: The inventory objective is 4281 with a procurement requirement of 2344 through the FY 1982 funded delivery period. 1073 are budgeted in FY 1982, deferring 1271 to subsequent years.

#### VEHICULAR DATA SHEET

P-1 Line Item: 56

Nomenclature: Truck, Panel, Multi-stop, IT 4x2

Mission/Description: This is a commercial panel truck with sliding front doors, double rear doors, two wheel drive, automatic transmission, powered by a six cylinder or larger gasoline engine. It is used for light cargo transport, mobile post offices and air crew personnel transport. It is used extensively on the flight line to support aircraft maintenance and by civil engineers in base and airfield maintenance.

# Cost Data:

FY 1982 Qty Amt	576 5.8
FY 1981 Qt y Amt	300 3.0
FY 1980 Qty Amt	311 2.7

basis for FY 1982 Request: The inventory objective is 4601 with a procurement requirement of 1832 through the FY 1982, funded delivery period, deferring 1256 to subsequent years.

#### VEHICULAR DATA SHEET

P-1 Line Item: 57

Nomenclature: Truck, Panel, 4x2

Mission/Description: Inis is a gasoline engined, two wheel drive, steel bodied vehicle modified with secured compartments for tools, supplies and an overhead ladder rack for telephone maintenance, installation and utility operations. It is a productivity enhancement vehicle in that tools and berch stock supplies are available to the craftsmen without additional order/transportation

(In Millions of Dollars)

Lost Data:

1982	Amt	3.1
Z	Qty	450
981	Amt	1.2
FY 19	Qty Amt	180
90	Amt	4.
FY 198	Qty Amt	7. 67

basis for FY 1982 Request: The inventory objective is 1830 with a procurement requirement of 855 through the FY 1982 funded delivery period. 450 are budgeted in FY 1982, deferring 405 to subsequent years.

VEHICULAR DATA SHEET

P-1 Line Item: 58

Nomenclature: Truck, Carryall

Mission/Description: This is a commercial carryall, capable of carrying a minimum of eight passengers (including driver). The velicle is used by communication, weather and radar sites as a combination cargo and group personnel carrier; by medical repair velicle is used by communication, weather and radar sites as a combination facilities; by SAC missile and aircraft alert crews; and in teams, to transport test and repair equipment to hospitals and medical facilities; by SAC missile and aircraft alert crews; and in some instances as airport transportation for personnel and their luggage.

(In Millions of Dollars)

FY 1982 Qty Amt	336 3.2
FY 1981 Qty Amt	326 2.8
	254 2.2

Cost Data:

Basis for FY 1982 Request: The inventory objective is 2538 with a requirement of 841 through the FY 1982 funded delivery period. The FY 1982 budget quantity is 336, deferring 505 to subsequent years.

VEHICULAR DATA SHEET

P-1 Line item: 59

Nomenclature: Truck, Cargo 2 1/21, 6x6, M35

Mission/Description: This vehicle is of military design with open or closed cab and with lattice type side extensions. It is multi-fuel engine driven, with six wheel drive, used to haul cargo and equipment, transport troops and their gear, and to tow trailers up to 10,000 lb. It will also be used in support of GLCM (Ground Launched Cruise Missile) operations.

(In Millions of Dollars)

Cost Data:

1982	Qty Ant	13.1
FY	Qt X	351
181	Amt	6.5
FY 19	Qty Amt	186
980	Amt	1
FY 1	Qt y Amt	ı

Basis for FY 1982 Request: The inventory objective is 3474 with a procurement requirement of 2346 through the FY 1982 funded delivery period. 351 are budgeted in FY 1982, deferring 1995 to subsequent years.

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VEHICULAR DATA SHEET

P-1 Line Item: 60

Nomenclature: Truck, Cargo 51, M813

Mission/Description: This is a military design, 5 ton, DED, 6x6 truck with a driving front axle, manual engagement, and 2 driving tear axles. It is an all terrain vehicle used to transport personnel and cargo. Assigned primarily to USAF tactical mobility torces, it is the primary transport for the AN/TPN radar set which is integral and critical to the bare base concept.

(In Millions of Dollars)

Cost Data:

1982	Qty Amt	11.6
FY	E G	161
981	ij 	4.6
FY 1	Qty Ant	93
Q	Amt	1.9
FY 198	Qty Amt	41
	<b>υ</b> Ι	

basis for FY 1982 Request: The inventory objective is 701 with a procurement requirement of 399 through the FY 1982 funded delivery period. The FY 1982 budget quantity is 191, deferring 208 to subsequent years.

VEHICULAR DATA SHEET

99 P-1 Line Item: Nomenclature: Truck, Tractor over 5T

Mission/Description: This vehicle classification includes diesel, commercial truck tractors over 5 tons capacity. They are used for towing critical direct mission support equipment such as: MSG-1 mobile radar tracking vans; SAC LGM-30 missile trailers; liquid oxygen and nitrogen trailers; and the Air Force Orientation Group audio-visual equipment van.

Cost Data:

(In Millions of Dollars)

FY 1982	VCZ AMIC	135 6.1
FY 1981	Qty Ant	131 6.2
	Qty Amt	
•	O,	

Basis for FY 1982 Request: The inventory objective is 1484 with a procurement requirement of 566 through the FY 1982 funded delivery period. 135 are budgeted in FY 1982, deferring 431 to subsequent years.

VEHICULAR DATA SHEET

P-1 Line Item: 68

Nomenclature: Truck, Dump 5 Ton

Mission/Description: This is a standard commercial dump truck, which is purchased in 4x2, 4x4 and 6x4 drive chassis configura-tions. It is used to haul and dump cleared materials such as dirt, rocks, trees, stumps and brush; to spread surfacing material; to clear snow from taxiways, runways, and roadways; and for Rapid Runway Repair (RRR) and Red Horse operations.

Cost Data: (In Millions of Dollars)

 FY 1980
 FY 1981
 FY 1982

 Qty
 Amt
 Qty
 Amt

 46
 1.8
 151
 4.2
 313
 9.8

Basis for FY 1982 Request: The inventory objective is 2046 with a procurement requirement of 564 through the FY 1982 funded delivery period. 313 are budgeted in FY 1982, deferring 251 to subsequent years.

VEHICULAR DATA SHEET

P-1 Line Item: 71

Nomenclature: Truck, Telephone Maintenance

Mission/Description: A standard commercial telephone line maintenance/construction unit with earth auger, hydraulic rotating derrick and a telescoping boom with fiberglass extension and insulated workman's basket. The vehicle is used to quickly construct, service or repair telephone line communications systems worldwide. A critical support item to the worldwide communication network, it is purchased in a low profile, air transportable 6X4 model.

(In Millions of Dollars)
Cost Data:

FY 1962 Qty Ant	3.4
<u> </u>	70
.ul	•
1981 Amt	1.8
FY 1981 Qt y Amt	13
Amt	2.8
9ty Amt	24

Basis for FY 1982 Request: The inventory objective is 335 with a procurement requirement of 190 through the FY 1982 funded delivery period. 20 are budgeted in FY 1982, deferring 170 to subsequent years.

#### VEHICULAR DATA SHELT

P-1 Line Item: 73

Nomenclature: Truck, lank, Fuel, 5,000 Gal, R-9

Mission/Description: This is a 5,00C gallon diesel engined refueling truck designed to deliver fuel to aircraft by either single point or over the wing method. It is the primary aircraft fuel servicing vehicle in the inventory. It is compatable with all inventory aircraft and is used to support every command.

## (In Killions of Doilars)

Cost Data:

1982	Qt y Amt	33.8
FY	Qt y	360
981	Qty Amt	10.5
FY	212	120
086	Qty Amt	14.1
FY 1	817	175

Basis for FY 1962 Request: The inventory objective is 2066 with an FY 1962 procurement requirement of 1209. The FY 1982 budget quantity is 360 with 649 deferred to subsequent years.

VEHICULAR DATA SHEET

P-1 Line Item: 74

Nomenclature: Truck, Tank, Fuel, M-49

Mission/Description: A six wheel drive M-series vehicle with a steel tank of 1200 gallon capacity. It is capable of transporting, pumping and metering gasoline, diesel and heating fuels in a tactical environment. This vehicle is essential in support of electronic installation, combat communications and tactical air support units.

(In Millions of Dollars)

Cost Data:

1982	Qty Amt	76 5.2
FY	Sty	9/
981	Qty Amt	2.8
FY	Sty	77
086	Amt	6.
FY 1	Qt y Amt	16 .9

Basis for FY 1982 Request: The inventory objective is 272 with a procurement requirement of 142 through the FY 1982 funded delivery period. The FY 1982 budget quantity is 76, deferring 66 to subsequent years.

VEHICULAR DATA SHEET

P-1 Line Item: 76

Nomenclature: Truck Oversnow, Tracked

Mission/Description: This is a full track, all terrain vehicle used for removal of snow from runways, ramps, streets and other areas. It is capable of carrying cargo and up to ten passengers. Vehicle is powered by a 426 CID engine developing 200 HP. Steering is hydrostatic. Tracks may move in opposite directions permitting a turning radius of 0 ft. TAC is the only user of this vehicle. Use will be primarily at the DEW Line sites. The vehicle may also be used in rescue operations.

Cost Data:

(In Millions of Dollars)

1982 Amt	3.3
FY 1982 Qty Amt	38
FY 1981 Qt y Amt	j
PY 1980 Qty Amt	1

Basis for FY 1982 Request: The inventory objective is 38 with a procurement requirement of 38 through the FY 1982 funded delivery period. 38 are budgeted in FY 1982, deferring none to subsequent years.

VEHICULAR DATA SHEET

P-1 Line Item: 77

Nomenclature: Tractor, A/C Tow MB-2

It tows aircraft up to 500,000 Mission/Description: A commercial tractor with a diesel engine and four wheel drive and steer. It tows aircraft up to 500,0 pounds including B-52 bombers and large cargo/refueling aircraft such as the C-141 and KC-135. These vehicles significantly enhance launch, turnaround and aircraft maintenance capability.

Cost Data:

(In Millions of Dollars)

1982 Ant	6.5
FY 1982 Qty Amt	80
FY 1981 Qt y Amt	4.7
PY 9	61
Amt	3.9
FY 1980 Qty Amt	99

Basis for FY 1982 Request: This is a critical item because spares are no longer available to support the 1958-66 models in the current inventory. The inventory objective is 471 with a procurement requirement of 197 through the 1982 funded delivery period. The FY 1982 budget quantity is 80, deferring 117 to subsequent years.

VEHICULAR DATA SHEET

P-1 Line Item: 79

Nomenclature: Tractor, Tow, Flightline

Mission/Description: This vehicle has a standard commercial chassis equipped with 6 cylinder gasoline engine, automatic transmission and dual rear wheels. The wheelbase is shortened, and ballast, protective rails and other devices are added to make it suitable to towing support equipment. Primary use of this tractor is towing and positioning support equipment around aircraft; however, when equipped with special trailer connections, it is also used for towing munitions trailers.

(In Millions of Dollars)

Cost Data:

FY 1982	Qt y Amt	2 6.6
1981	Qty Amt	3.8
		229
1980	Qty Ant	106 1.6
F	QtX	106

Basis for FY 1982 Request: The inventory objective is 2590 with a procurement requirement of 1003 through the FY 1982 funded delivery period. 372 are budgeted in FY 1982, deferring 631 to subsequent years.

VEHICULAR DATA SHEET

P-1 Line Item: 89

Nomenclature: Truck, Forklitt, 4000 lb GED/DED 144"

Mission/Description: This commercial forklift has a diesel engine and a telescoping mast assembly which permits reaching heights from 68" to 144". It replaces both the 4000 pound standard mast forklift and 4000 pound low-mast forklift. It is the basic general cargo handling forklift for traffic management operations, warehouses, and materials holding areas. This is a productivity enhancement vehicle which permits better utilization and efficiency of personnel and fuel.

Cost bata:

 FY 1980
 FY 1981
 FY 1982

 Qty
 Amt
 Qty
 Amt

 400
 6.3
 189
 3.5
 143
 3.2

basis for FY 1982 Request: The inventory objective is 1911 with a procurement requirement of 867 through the FY 1982 funding delivery period. The FY 1982 budget quantity is 143, deferring 724 to subsequent years.

#### VEHICULAR DATA SHEET

9-1 Line Item: 90

Nomenclature: Truck Forklift, 6000 lb

Mission/Description: This is a 6000-1b commercial forklift with pneumatic tires and 168" lift capability. It is used for munitions handling, aerial port operations, base supply warehouses, maintenance shop and materials holding area support AF-wide. The equipment is purchased in electric, gasoline and diesel engined models, as well as in a rough-terrain configuration. The roughterrain model is a support vehicle for USAF mobility units for use in forward area deployments.

(In Millions of Dollars)	
Cost Data:	

FY 1982 Ot v Amt		164 5.8
FY 1981	#   }	142 4.7
FY 1980	15 A	129 3.7

Basis for FY 1982 Request: The inventory objective is 1764 with a procurement requirement of 677 through the FY 1982 funded delivery period. The FY 1982 budget quantity is 164, deferring 513 to subsequent years.

#### VEHICULAR DATA SHEET

P-1 Line Item: 91

Nomenclature: Truck, Forklift, 10,000 lb

Mission/Description: These 10,000 lb commercial forklifts are used as the basic 463L system support vehicle to handle 108"x88" pallets in conjunction with pallet trailers. The vehicle is compatible with, and supports all strategic and tactical airlift aircraft except the wide-body Civil Reserve Air Fleet aircraft. It is purchased in two configurations, the dual 150" lift, 72" tine configuration with lateral shift capability and, in a rough terrain configuration.

1982	Qty Amt	10.9
FY	Qty	215
81	Amt	7.0
FY 198	Qty Amt	151
	빔	7.
r 1980	Qty Amt	17.
įs,	SEY.	406

(In Millions of Dollars)

Cost Data:

Basis for FY 1982 Request: The inventory objective is 1824 with a procurement requirement of 466 in FY 1982. 215 are budgeted in FY 1982, deferring 251 to subsequent years.

#### VEHICULAR DATA SHEET

P-1 Line Item: 94

Nomenclature: 25k A/C Loader

Mission/Description: This vehicle is diesel powered, C-130 air transportable, and has an adjustable conveyorized cargo platform. It is used at major air cargo terminals for mechanized loading/off loading and ground transport of palletized air cargo; and provides minimum turn around time for C5, C-130 and C-141 cargo aircraft.

(In Millions of Dollars)

Cost Data:

FY 1982	QCY Amer	24 3.5
FY 1981	Qty Amt	23 3.1
FY 1980	Qty Amt	50 6.2

basis for FY 1982 Request: The inventory objective is 437 with a procurement requirement of 364 through the FY 1982 funding delivery period. The FY 1962 budget quantity is 24, deferring 340 to subsequent years. A remanufacture program will satisfy 312 of the deferred quantity.

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#### VEHICULAR DATA SHEET

P-1 Line Item: 98

Nomenclature: Loader Scoop

Mission/Description: This family of vehicles is defined as a diesel engined commercial scoop type front end loader of 1 1/2, 2 1/2 or 4 cubic yard capacity. It is used by Civil Engineering for base maintenance, construction/repair, bulk handling (rocks, sand, gravel), and snow removal, excavrting, trenching and sanitary fill support at bases worldwide. It is also slated for Rapid Runway Repair (RRR) in Europe and the Red Horse Modernization project. It comes in either pneumatic tired 4x4 or tracked configuration, depending on mission requirements.

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FY 1962	Amt	4.2
	Qt X	29
1981	Qty Amt	2.8
FY	Qt.	53
080	Ant	3.6
FY 19	Qty Ant	89

Basis for FY 1982 Request: The inventory objective is 758 with a procurement requirement of 282 through the FY 1982 funded delivery period. The FY 1982 budget quantity is 59, deferring 223 to subsequent years.

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#### VEHICULAR DATA SHEET

P-1 Line Item: 101

Nomenclature: Cleaner, Runway/Street

Mission/Description: A commercial sweeper used on all airfield surfaces and streets to control foreign object damage to aircrait tires and engines, and to sweep snow. One model is a component of the Rapid Runway Repair (RRR) sets. The equipment is purchased in both the towed rotary sweeper configuration and a self-propelled vacuum suction model. During winter operations the snow sweeper is a direct mission support vehicle at SAC and TAC bases.

(In Millions of Dollars)	TV 1981
•	0301 444

Cost Data:

FY 1982	Ot y	75 3.0
FY 1981	Qty Amt	69 2.9
FY 1980	Qty Amt	78 3.1

Basis for FY 1982 Request: Ine inventory objective is 974 with a procurement requirement of 299 through the FY 1962 funded delivery period. The FY 1982 budget quantity is 75, deferring 224 to subsequent years.

7

VEHICULAR DATA SHEET

P-1 Line Item: 104

Nomenclature: Crane, 7-50 Ton

neavy cargo lifting, earth moving/construction, munitions handling, SAC silo missile changes, ATC missile change training, air-craft engine changes, ship loading/offloading, and aircraft crash recovery operations. Requirements have been reviewed and a number of the vehicles downsized to take advantage of specific state-of-the-art developments. Mission/Description: This line consists of commercial cranes, most of which are diesel powered, hydraulically operated with 7-50 ton capacities. The major users are civil engineering, munitions and aircraft maintenance. Specific mission requirements are:

(In Millions of Dollars)	
Cost Data:	

1982	Sty Amt	4.2
FY	St.	65
186	Qty Amt	3.9
FY 1	Qty	41
0	Amt	7.6
FY 198	Qty Amt	45
	9	

Basis for FY 1982 Request: The inventory objective is 532 with a procurement requirement of 143 through the FY 1962 funded delivery period. The FY 1982 budget quantity is 49, deferring 94 to subsequent years.

VEHICULAR DATA SHEET

P-1 Line 1tem: 108

Nomenclature: Modifications

Mission/Description: Provides for modification and remanufacture of vehicles to extend life expectancy, correct deficiencies, and avoid costly replacement programs.

Cost Data:

FY 1982 Y Ant Ct. (In Millions of Dollars) Ant 5.7 FY 1981 Qty A FY 1980 Qty Amt

Basis for FY 1982 Request: To continue efforts begun in previous years. The largest projects are the modification remanufacture of the 25K Loader and the P-2 crash fire truck.

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ELECTRONIC & TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 110

Nomenclature: Space Systems

Mission/Description: The Air Force is the single manager for all COMSEC equipment used in U.S. space systems. It includes the ground communications security (COMSEC) equipment required to protect command uplinks, telemetry down-links and mission information links of DOD Space programs.

(In Millions of Dollars) Cost Data: 
 FY 1980
 FY 1981
 FY 1982

 Qty
 Amt
 Qty
 Amt

 8.4
 16.5
 39.7

Basis for FY 1982 Request: To provide funding for procurement of equipments for satellite control facility and special projects.

## ELECTRONIC & TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 112

Nomenclature: Tactical Secure Voice

Mission/Description: The Tactical Secure Voice Line provides vinson, parkhill and bancroft equipments and ancillaries for the vinson/parkhill implementation planning, coordination, readiness conditions, status reports, and strike reports within the Tactical Air Control System to aid force component headquar-

(In Millione of Dollare)	١	
1	Cost Data:	

FY 1982 Qt y Amt	- 4.0
FY 1981 Qty Amt	- 3.8
FY 1980 Qty Amt	- 10.6

Basis for FY 1982 Request: Procurement of equipments to support Tactical Air Control Systems of the Tactical Air Force and Military Airlift Command.

ELECTRONIC & TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 114

Nomenclature: Tri-TAC

Mission/Description: Tri-Tac is a multi-service DOD directed effort to develop/procure a new generation joint tactical communications system to include trunking, switching, system control, local distribution, individual terminal, system interface, and transmission equipments.

Cost Data:

 FY 1980
 FY 1981
 FY 1982

 QLY
 Amt
 QLY
 Amt

 3.8
 11.7

(In Millions of Dollars)

Basis for FY 1962 kequest: Procurement of CCASEC equipment to support 36EA 1RC-120 (TROPO), 5EA 1TC-39 (CRI switch), 16EA TDF (Tacrical Fax) and individual terminal transition for Air Force users.

# ELECTRONIC & TELFCOMMUNICATIONS DATA SHEET

P-1 Line Item: 122

Nomenclature: Traffic Control and Landing

Nission/Description: This program provides ground facilities and equipment (fixed and mobile) necessary to provide safe, orderly and expeditious USAF aircraft movements. Included are systems necessary for the DOD mission but not provided by the FAA in major functional areas: enroute and terminal navigation, approach and landing, air traffic control communications, and necessary interface with other systems (both National and International).

(In Millions of Dollars)

Cost Data:

1982	Qty Amt	7.0
F	Qt y	1
1981	Qty Amt	8.9
FY	<u>Qt y</u>	1
1980	Qty Amt	10.0
FY	Qty	•

Basis for FY 1982 Request: Procurement of new communications control system for USAF air traffic control facilities. The systems will allow replacement of existing obsolete government owned systems.

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# ELECTRONIC & TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 125

Nomenclature: Tactical Air Control System Improvement (TACSI)

Mission/Description: This program provides tactical commanders with all mobile communications and electronic equipment required to control deployed tactical forces. This equipment is necessary for Commanders to effectively execute and control all tactical air operations such as counter air, interdiction, close air support, tactical air reconnaissance, tactical airlift, and air traffic control.

(In Millions of Dollars)

Cost Data:

FY 1982	Amt	8.9
FY	Qty	•
FY 1981	And	8.4
		•
1989	Ly Amt	•
<b>E</b>	Q£.	•

basis for FY 1982 Request: Procurement of System Trainer and Exercise Modules. The deployable sets will be used to train TACS operations personnel in various wission functions associated with simulated air battle situations.

# ELECTRONIC & TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 124

Nomenclature: Weather Observation/Forecast

Mission/Description: A continuing program for acquisition of meteorological/space environmental equipment required by the Air Force air weather service to support the worldwide mission of Air Force and Army operational force with specialized weather information. Equipment are both fixed and mobile in order to provide observing and forecasting services at the base/post level and for field deployments.

(In Millions of Dollars)

Cost Data:

 FY 1980
 FY 1981
 FY 1982

 QCY
 Amt
 QtY
 Amt

 2.3
 4.8

Basis for FY 1962 kequest: Provides funds to replace 20-30 year-old meteorological equipment which impacts flight safety, such as Altimeter Setting indicators and wind Measuring Equipment. Equipment is used at airdromes in determining precise local weather conditions affecting flight operations.

# ELECTRUNIC & TELECOMMUNICATIONS DATA SHEET

2-1 Line item. 125

Nomentiature: Detense Support Program

Cost Data

Mission/Description ine Defense Support Program provides

to the National Command Authorities. A secondary mission is to provide data on ine Defense Support Program provides

 (In Millions of Dollars)

 FY 1950
 FY 1981
 FY 1982

 QLY
 Amt
 QLY
 Amt

 24.0
 67.2
 87.7

pasis for fit 1902 Request: Procurement of equipment to modify existing ground stations for compatibility with satellites containing enhanced capability; equipment to modify the Ground Communications Network to integrate the Simplified Processing station and improve message survivability; and procurement of S-band Mobile Ground Terminals.

## ELECTRONIC & TELECOMMUNICATIONS DATA SHEET

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SACLIA " "B" 1 . 1 . 1 . 1 . 1 . 1 Mission, bestrigition: SACDIN will interface ADP communities as well as other communications systems to provide CINCSAC with a stocker communications network. It will replace Satin I and the data transmission subsystem of the SAC Automated Command and Contractions secure communications service between CINCSAC and the National Command Authorities Communications tions system.

(In Millions of Dollars) Cost bata.

FY 1982 Y Amt **[**2] B | FY 1981 Ant FY 1980 Qty Ami

25.5

basis for FY 1962 Request: Procurement of low rate initial production hardware and long lead components.

## ELECTRONIC & TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 127

Nomenclature: Cheyenne Mountain Complex

Mission/Description: This program provides command, control and communications system in support of HQ NURAD. Computing and display equipment, located within the NORAD Cheyenne Mountain Complex, provide a focal point for all pre, trans, and post attack information necessary to direct the defense of the continent and to provide the NCA a basis for decision making.

Cost Data:

 FY 1980
 FY 1981
 FY 1982

 QLY
 Amt
 QLY
 Amt

 4.4

(In Millions of Dollars)

basis for FY 1982 Request: Procurement of a data processing system for the Space Defense Operations Center to support the satel-lite survivability and anti-satellite missions. The hardware includes two medium and one large computer systems.

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## ELECTRONIC & TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 128

Nomenclature: Spacetrack

hission/Description: Spacetrack consists of radar and optical sensors which provides support to the Space Computation Center. The center takes data from assigned Arrospace Defense Command Sensors, contributing sensors/agencies and from scientific organizations for electronic processing.

Cost Data:

<u>ev 1981</u> <u>Qty</u> Amt

FY 1980 Qty Amt.

(In Millions of Dollars)

<u>FY 1982</u> <u>Amt</u>

Qty

- 20.9

Jasis for FY 1982 Request: To procure the fifth and final ground based electro-optical deep space surveillance (GEODSS) system and fund modifications to existing surveillance sensors which support the overall space defense mission of targeting, threat and damage assessment.

## ELECTRUNIC & TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 131

Nomenclature: hinimally Attended Radar System (NAR)

Mission/Description: The MAK will upgrade the Alaskan Air Command sensor capability with modern search radars having a height finding, beacon identification, strobe and other data for transmission to the region operations control center at Elmendorf AFB. It will be capable of operating unattended up to five days.

(In Millions of Dollars)

Lost Data:

FY 1982 Qty Ant	- 46.2
FY 1961 Qty Ant	,
FY 1980 Qty Amt	1

Basis for FY 1982 Request: The present radars at 13 operational sites have been in use for 20 years. The time and manpower resources required to maintain and repair the outmoded equipment have become increasingly costly. Procurement of the minimally attended radar will significantly reduce life cycle costs and provide operational improvements.

# ELECTRONIC & TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 132

Nomenclature: Factical SIGINT Support

Mission/Description: This program will provide improved communications between the SIGINT collection systems and Tactical Air Control Systems.

(In Millions of Dollars)
Cost Data:

$\frac{\text{FY } 1982}{\text{Qty}}$	- 9.7
FY 1981 Qt y Amt	- 1.2
$\frac{\text{FY } 1980}{\text{Qty}}$	1

basis for FY 1982 Request: Procurement for replacement of outmoded communications equipments in support of the Air Force's emer-gency reaction special security communications system and wideband data link to provide communications linkage with elements of the remote tactical airborne SIGNIT system.

# ELECTRONIC & TELECONMUNICATIONS DATA SHEET

P-1 Line Item: 133

Nomenclature: Transportable Ground Intercept Facility (TGIF)

mission/Description: Inv TCIF and related intelligence collection packages carried by the TR-1 or U-2R will be the principal airborne SIGINI collection and processing asset for Air Force tactical support. Coverage of certain essential SIGINI targets is now concentrated in exposed forward ground facilities

Cost Data:

FY 1982 Y Amt ÇŢ, (In Millions of Dollars) 15.0 見 FY 1981 FY 1980 QLY Amt 35.9

33.9

Busis for FY 1982 Request: Procurement of the second full production model transportable ground intercept facility to process soviet pact tactical communications intercepted by CCMINT pods carried on U-2R and TR-1 platforms orbiting central Europe.

# ELECTRONIC & TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 134

Nomenclature: Side Looking Airborne Radar (SLAk) Processing Equipment

Mission/Description: The SLAK UPD-4 system is the only reconnaissance system capable of detecting tactical size targets that are fixed/mobile/moving/emitting/non-emitting at large stand-off ranges. 12 UPD-4 systems are operational in Europe with one ground station at Zwiebrucken AB, Germany.

Cost Data:

(In Millions of Dollars)

FY 1982 Qty Amt	1
<u>FY 1981</u> <u>Qt y</u> Ant	- 17.2
9ty Ant	- 11.2

basis for FY 1982 Kequest: Procurement of one additional correlator processor to support PACAF ground station.

ELECTRONIC & TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 135

Nomenclature: TEREC Ground Processor

Mission/Description: Ine Tactical Electronic Reconnaissance (IEREC) system provides Tactical Commanders with a capability to rapidly establish and maintain a hostile electronic order of battle. IEREC, through a UHF/HF radio data link, provides data on location and operating characteristics of hostile emitters to ground based facilities for target selection, weapons selection, and employment tactics.

(In Millions of Dollars) Cost Data: 
 FY 1980
 FY 1981
 +Y 1962

 Qty
 Amt
 Qty
 Amt

 6.3

Procurement of 12 TEREC Remote Terminals and one downlink simulator for system checkout and training. Basis for FY 1962 Request:

ELECTRONIC & TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 137

Nomenclature: Imagery Trans

Mission/Description: An intra-theator imagery transmission system (IITS) transceiver converts reconnaissance imagery into a form appropriate for transmission and converts received imagery into a hard copy for commanders, mission planners and strike crews.

Cost Data:

 FY 1980
 FY 1981
 FY 1982

 QLY
 Amt
 QLY
 Amt

(In Millions of Dollars)

basis for FY 1982 Request: Procurement of first 27 transceivers.

# ELECTRONIC & TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 138

Nomenclature: Automatic Data Processing Equipment

Mission/Description: This program provides automatic data processing equipment necessary for the Air Force mission. Purchase candidates are identified through exhaustive and continuing economic analyses, based on the cost effectiveness of the purchase versus the lease alternative.

Cost Data:

(in Millions of Dollars)

FY 1982	Qty Ant	- 37.4
FY 1981	Qt y Amt	- 22.9
FY 1980	QLY AME	- 21.6

basis for FY 1982 Request: Provides for purchase of installed computers, new acquisition and the purchase of periphral equipment to support government-owned computer systems. Items are commercially available automatic data processing equipment from various manufacturers and third party vendors for various management and mission support applications.

ELECTRONIC & TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 139

Nomenclature: world wide Military Command & Control System (WMMCCS) ADPE

Mission/Description: The WWMCCS is the world-wide command and control system that provides the means for operational direction and technical administrative support involved in the command and control of the U.S. military forces. It supports the National Command Authorities, Joint Chiefs of Staff, Commanders of the unified and specified commands, and the military services and agencies through all levels of crisis and conflict.

Cost Data:

(In Millions of Dollars)

FY 1982 Qty Amt	- 11.9
FY 1981 Qty Amt	8.8
FY 1980 Qty Ami	4.9

Procurement of equipment to upgrade the WWMCCS system and provides for replacement of obsolescent Basis for FY 1982 Request: equipment.

## ELECTRONIC & TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 141

Nomenclature: MAC Integrated Management System

Mission/Description: The Military Air Command Integrated Management System is to provide the CINCMAC, his staff operating head-quarters, and operating locations with a highly responsive selectively integrated command control, and information management system to improve resource management.

Cost Data:

PY 1981 Qty Amt

> FY 1980 Qty Amt

(In Millions of Dollars)

Amt QEY AT 1982 - 3

A

Basis for FY 1982 Request: Procurement of automated data processing equipment required to provide MAC with a standard worldwide automated transportation system, the consolidated aerial port subsystem.

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## ELECTRONIC & TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 144

Nomenclature: Air base betense System

levels and results in an avoidance of personnel increases required to meet the increased terrorist threat. The systems consist of interior and exterior sensors, and sensor related equipment configured as closed systems to protect storage areas, alert sircraft parking areas, and individual aircraft shelters. Sensor activations are transmitted to a local control area and to remotely Mission/Description: this program provides for increased security protection of alert aircraft and special weapons storage areas through procurement and deployment of physical security sensor systems. Deployment of these sensor systems enhances security levels and results in an avoidance of personnel increases required to meet the increased terrorist threat located displays.

Cost Data:

(In Millions of Dollars)

FY 1982 Qty Amt	12.2
Qt y	ı
FY 1981 Qty Amt	18.0
Qt y	ı
80 Amt	11.8
FY 1980 Qty Amt	1

Procurement of equipments to complement the basic intrusion detection system procured during the FY Basis for FY 1952 Request: Procurement of equipments to complement the basic intrusion detection system procured Juring the 75-81 program efforts; the Perimeter Surveillance System CCTV; the Sheltered Aircraft Sensor; the Radar barrier sensor; and equipment for protection of the Ground Launched Uruise hissile (GLCM) weapon storage areas.

## ELECTRONIC & TELECOMMUNICATIONS DATA SHEET

P-1 Line Item:

Nomenclature: Eastern lest Kange

Mission/Description: Eastern Test Kunge is an Air Force managew national range benaquartered at Patrick AFB, Fictila (itacking and data) electrons stations extend from the Florida manicand into the indian ecedn via instrumentation stups and invencementation

Cost Data:

stime Millions of Resents

Ą FY 1950

Am:

Basis for FY 1962 Requist: Procurement of equipments to emperit bet bossesses properties and thousands missions short range Amay ordinance, meteorological probes, July special missions, bet and special meteorological probes, July special missions, between any ordinance, meteorological probes, July special missions, between the contract of the range and its organic research.

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dusts to the transfer of the quency of the systems

## ELECTRONIC & TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 147

Nomenclature: kange Improvement Equipment

Mission/Description: The operational range mission is to ensure combat readiness of aircrews through training, tactics development, and evaluation of existing and new capabilities in a realistic environment. This project m provides instrumentation and equipment necessary to support the operational range mission. The primary function of this impressed capability is to provide overall range control of forces, information for real time assessment of test and exercise objectives, conservation of resources through a more effective test, evaluation and training capability.

(In Millions of Dollars)

Cost Data:

FY 1982	Qty Aunt	- 23.3
FY 1981	Qty Amt	- 25.7
	Qty Amt	- 20.7

Basis for FY 1982 Request: Procurement of equipments will continue Air Force operational improvements associated with mission control, range communications, and range instrumentation, such as, Display and Debriefing Systems, Laser Kangers, Television Ordnance Scoring Systems and a surveillance Kadar.

# ELECTRONIC & TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 148

Nomenclature: HF kadio Consolidation

Mission/Description: The HF radio consolidation program (Scope Signal III) is to satisfy a SAC requirement for a worldwide HF radio system responsive to SAC needs for extended command and control of its strategic forces. The SAC HF ground system installed in the late 50's is no longer functionally adequate to meet mission requirements.

Cost Data:

(In Millions of Dollars)

1982	Qty Amt	22.7
FY	Qt,	ı
FY 1981	Amt	i
FY	Qt y	1
FY 1980	Amt	•
(36. <u> </u>	St.	1

basis for FY 1982 Request: Procurement of HF/single band radio equipment/antennas for Scope Signal III overseas locations at Elmendorf, Yokota, Clark, Thule, Croughton, and Incirlik. These stations, together with the CONUS stations will provide a worldwide communications system for command and control of SAC forces.

#### OTHER PROCURENENT, AIR FUNCE

# ELECTRONIC & TELECOMMUNICATIONS DAIA SHEET

P-1 Line Item: 151

Nomenclature: space amuth.

MISSION/DESCRIPTION: Inis effort includes the procurement of hardware for the communications and navigational aids required to support Space Shuttle operations at Vandenberg AFB, kennedy Space Center, and Johnson Space Center.

Cost Bata:

(In Millions of Dollars)

1982	Qt y Amt	6.7
FY	QtX	1
	ŧ.	<b>7</b> .
FY 1981	Qty Amt	- 17
	싫	
ō	Amt	3.5
FY 198	Gty Amt	- 2

Basis for FY 1952 Request: Procurement of ground support system navigation aids communications and check out equipment to support the acquisition and activation of the space shuttle launch and landing capability at Vandenberg AFB, with a June 1984 initial operational capability.

# ELECTRONIC & TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 152

Nomenclature: Combat Supply System (CCS)

Mission/Description: The CCS minicomputer will be programmed to operate the minimum essential supply processes required to support combat forces deployed to austere forward locations. The CCS will be positioned at bases with a wartime deployment mission. In peacetime, it will be linked to the home base fixed supply computer as a low speed remote terminal and be used to manage and maintain war/contingency material requirements and resources for war/contingency operations. The system will deploy with the tac-

(In Millions of Dollars)

Cost Data:

 FY 1980
 FY 1981
 FY 1962

 Qty
 Amt
 Qty
 Amt

basis for FY 1982 Request: Procurement of 46 small transportable computers for implementation of the USAF Combat Supply System.

## ELECTRONIC & TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 154

Nomenclature: Restricted Airspace Control

system to allow optional joint and shared use by military and civilian users. The primary DOD users are the Naval Weapons Center at China Lake, the Air Force Elignt lest Center at Edwards AFB, the Army's Fort Irwin and the 35th Tactical Fighter Wing at George Mission/Description: This program is a joint Department of Defense (Tri-Service), Department of Transportation (FAA) project for upgrading radar and communications facilities used to provide command and control in the R-2508 restricted airspace. The primary objective is to establish a single facility to control the entire restricted airspace and to establish a management and control

	FY 1962	QLy Amt	- 7.1
(In millions of Dollars)	FY 1981	Qty Amt	7.7 -
	FY 1980	QLY Amt	- 4.5

basis for FY 1982 Request: To provide the acquisition site preparation, installation and integration of the TPS-64 three uimensional long range radar to replace the FPS-26 radar at Laurel Mountain, a Radio Communications Switching System and equipment for the planned automated Scheduling System.

## ELECTRONIC & TELECOMMUNICATIONS DATA SHEET

P-l Line Item: 155

Nomenciature: Space and Missile Test Center/Western Test Range

Mission/Description: The Western Space and Missile Center (formerly West Test Range) is an Air Force managed national range head-quartered at Vandenberg AFb, California. Launch pads and related support facilities are located at Vandenberg with telemetry, radar and optical tracking stations located on the California mainland, and stretching through the Pacific area. SAMTEC/WTR supports US space launches, ICBM testing and aircraft test flights.

(In Millions of Dollars)	
Cost Data:	

FY 1982 0tv Amt	4.3
FY 1981 0ty Amt	1.4
FY 1980 Qt y Ant	- 4.7

To provide funds for the improvement and modernization of Optical, Control and Telemetry Systems Basis for FY 1982 Request:

ELECTRONIC & TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 156

Nomenclature: Joint Tactical Information Distribution System

Mission/Description: To provide a time division multiple access, jam resistant, secure, digital information distribution system with a relative navigation and identification capability to operate/interconnect with the E-3A aircraft. It will enable a primary ground command link with such systems as 407L in combat situations utilizing tactical systems, facilities and elements. There are no viable alternatives to provide these capabilities within the Air Force.

	FY 1982 Qty Amt	27.3
of Dollars)	1981 Amt	1
(In Millions	<u>fY 1981</u> <u>QtY</u> Ant	ı
	FY 1980 Qty Amt	ŀ
	FY QEY	j
•		

Cost Data:

Basis for FY 1982 Request: Procurement of eight Adaptable Surface Interface terminals.

# ELECTRONIC & TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 159

Nomenclature: Telephone Exchange

Mission/Description: This program replaces existing government owned central office telecommunications telephone systems with a standardized electronic telecommunication system telephone switch at Air Force installations. It also provides combat essential base users with a protected telephone capability in support of the USAFE communications/air traffic control survivability program and the NATO long term defense program.

(In Millions of Dollars)

Cost Data:

Basis for FY 1982 Request: Continuation of the telephone exchange system replacement program for Sembech AB, Eilson AFB, Wright-Patterson AFB (nospital), and the San Antonio metropolitan area telephone system.

## ELECTRONIC & TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 160

Nomenclature: Joint Tactical Communications Program (TRI-TAC)

Mission/Description: A joint service effort to develop and acquire tactical communications equipment which can be commonly used in combat. Tri-Tac equipment will provide a digital capability to allow total system security, and increased capacity to support the data and voice, point to point switching and transmission needs of deployed Tactical Air Forces worldwide.

Cost Data: (In Millions of Dollars)

 FY 1980
 FY 1981
 FY 1982

 Qty
 Amt
 Qty
 Amt

 3.9
 92.1

basis for FY 1982 Request: Procurement of tropo scatter radios (AN/TRC-170) to provide a totally securable, wideband point to point transmission system on the tactical battlefield and circuit switches (AN/TTC-39) which will provide for a switched secure voice system for the tactical arena.

# ELECTRONIC & TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 161

Nomenclature: USKEDCOM

hission/Description: Ins program acquires tactical communication-electronics equipment to support the U.S. Readiness Command; USA and USA snare equally in program acquisition costs.

(In Millions of Dollars)

Cost Data:

 FY 1980
 FY 1981
 FY 1982

 Qty
 Amt
 Qty
 Amt

 1.9
 8.7

Procurement of nodal/non-nodal SHF satellite terminals in support of a deployed rapid deployment joint basis for FY 1962 Request: task force headquarters.

## ELECTRUNIC & TELECUMMUNICATIONS DATA SHEET

P-1 Line Item: 162

Nomenclature: Strategic SAICCh System (355)

Mission/Description: Ine 555 is a major evolutionary improvement to the Air Force Satellite Communications (AFSATCOM) system.

Ine 555 will satisfy the urgent DOD requirement for survivable, highly jam resistent, two way and secure communications for command and control of the Single Integrated Operational Plan (SIOP) forces, other nuclear capable and supportive forces and selected nigh priority users.

	FY 1982 Qty Amt
(In Millions of Dollars)	<u>Qty</u> Amt
	FY 1960 Qty Ant
Cost Data:	

Amt

BESIS FOR FY 1962 Request: Procurement of four network monitoring and control terminals, refurbishment of one developmental terminal and three Single Channel Transponder Injection Subsystem development modus. Also procures long lead components for the SSS Super high Frequency modification kits.

# ELECTRONIC & TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 165

Nomenclature: Teletypewriter Equipment

Mission/Description: This program will replace obsolete and unsupportable fixed plant and tactical teletypewriters with state-of-the-art equipment.

(In Millions of Dollars)	
Cost Data:	

FY 1982 Qty Amt	- 7.9
FY 1981 Qty Amt	- 7.1
<u>γγ 1980</u> <u>Qty</u> Amt	- 3.2

basis for FY 1982 Request: To exercise an option on a 1981 contract for additional fixed plant teletyperwriters.

# ELECTRONIC & TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 166

Nomenclature: Ground Mobile Force Terminal

Mission/Description: This program will provide highly reliable communications among Air Force Component Headquarters at tactical air bases and elements of the Tactical Air Control System. It is phased to satisfy specific USAF communication needs and to be compatible with the Tri-Tac and Army (GMF) efforts.

Cost Data:

 FY 1980
 FY 1981
 FY 1982

 Qty
 Amt
 Qty
 Amt

 15.8
 27.8

(In Millions of Dollars)

Basis for FY 1982 Request: Procurement of AN/TSC-100A and AN/TSC-94A terminals.

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ELECTRONIC & TELECOMMUNICATIONS DAIN SHEET

P-1 Line Item: 167

Nomenclature: stacband oystems bpgrade

dissipary Description: Inis program improves the reliability/maintain whility/performance of stired Describers after a system of a communications to support such a system sus Abiobla, AdioseVotch and command and control activations and systems as Abiobla, AdioseVotch and command and control activations of parting of commandaris.

(in atimons of Lemes, 1961 14 านแ FY 1780 Vt.y

LOSE Data

basis for FY 1912 Request: Procurement of equipment to upgrade widebane communication science into use programs size as the coldinal technological and the hAlo Long lets between Eachbone Upgrade and the hAlo Long lets broghest connected

ELECTRUBIL & TELECORMUNICATIONS DATA SHEET

P-i Line Item: 173

Nomencleture: Training Support Equipment

Mission/Description: inis probram procures turcal radar, and early warming radar simulator systems for use on USAF operational test and training ranges, and SAP strategic training, ranges to provide a realistic combat environment for affected training, and congressional and beordinal test and evaluation of weapons systems.

FY 1982 y Amt ζ; ζ (In millions of Dollars) Amt PY 1981 Qty A 'vant FY 1950 Cost pate:

busts for FY 1502 Request: Procurement of AN/APR-15 AAA emitter; AN/MSR-11 receivers; AN/MLC-14; AN/MLC-15 ground jammers; and a jactical/strangic comment and control system; and an aN/APS-1YY System.

# ELECTRONIC & TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 174

Nomenclature: Plan Position Indicator Scope

Mission/Description: Inc plan position indicator is a solid state, digitally implemented cathode ray tube which can display radar, beacon, mapping, and other video symbology. It is used in numerous applications for surveillance, identification, intercept control, and traffic control.

Cost pata:

· (In Millions of Dollars)

1982	Qty Amt	6.1
FY	Qty	1
1981	Qty Amt	ł
FY	Qt.y	ı
080	Amt	ı
FY 19	Qty Amt	1

Basis for FY 1982 Request: Procurement of AN/UPA-62 PPI equipment to replace the AN/UPA-35/48 scopes which are deteriorating and costly to maintain.

### ELECTRONIC & TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 176

Nomenclature: Tactical C-E Equipment

Mission/Description: The program provides essential communications equipment to satisfy .3 systems requirements to support the tactical air control system and associated combat communications elements.

Cost Data:

 $\frac{\text{FY 1980}}{\text{Qty}} \qquad \frac{\text{FY 1981}}{\text{Qty}} \qquad \frac{\text{FY 1982}}{\text{Amt}}$ 

Basis for FY 1982 Request: Procurement of AN/GRG-206 Communications Centrals, AN/PRC-113 backpack UHF/VHF-AM radios, and AN/TRC-176 UHF radio systems to support forward air controller and combat control teams.

### ELECTRONIC & TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 178

Nomenclature: Radio Equipment

Mission/Description: This program will replace outdated and nearly obsolete inventory for which many manufacturers will no longer supply spare parts. Much of the equipment in use is more than 20 years old.

Lost Data: (In Millions of Dollars)

 FY 1980
 FY 1981
 FY 1982

 QLY
 Amt
 QLY
 Amt

 3.8
 11.7

Basis for FY 1982 Request: Provide funds to upgrade the HF Cemetary Network by acquiring and installing new radio voice and teletype systems. It also will initiate a multiyear effort to replace obsolete HF radio equipment.

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### ELECTRONIC & TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 181

Nomenclature: Communications-Electronics Class IV Modifications

Mission/Description: Class IV modifications are defined as: a. Safety Modifications required to correct a condition to insure safety of personnel, systems, and/or equipment by eliminating operational or physical hazards. b. Mission Essential Modifications required to correct deficiencies in systems and equipment that affects reliability and maintainability to the extent that the mission is seriously impeded, c. Logistics Modifications which extends the service life by modification to present equipment in lieu of buying new equipment at a much greater cost.

FY 1982 Qty Ant	- 22.5	
	FY 1981	FY 1980         FY 1981         FY 1982           Qty         Ant         Qty         Ant           - 12.6         - 16.3         - 22.5

Cost Data:

To provide funds for modifications to in-service systems and equipment. Basis tor FY 1982 Request:

### ELECTRONIC & TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 187

Nomenclature: Traffic Control & Landing System (TRACALS) Modifications

Mission/Description: This program provides modifications to ground facilities and equipment (fixed and mobile) necessary to provide safe, orderly, and expeditious world-wide USAF aircraft movements. Included are systems necessary for the DOD mission but not provided by FAA in major functional areas: enroute and terminal navigation, approach and landing, air traffic control communications, and necessary interfaces with other systems (both National and International).

Cost Data: (In Millions of Dollars)

basis for FY 1982 Request: Procurement of equipment to correct deficiencies on the AN/TPN-19 Landing Control Central and the Tac-tical Loran-C/D ground chain.

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### ELECTRONIC & TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 184

Nomenclature: Ballistic Missile Early Warning System (BMEWS)

Mission/Description: The BMEWS provides detection and warning of a mass ICBM and/or SLBM raid launched over the Northern, Paci-fic, Atlantic and Polar regions to impact on the North American Continent, and of a mass IKBM raid against the United Kingdom. A secondary role is to provide Satellite detection and tracking data to the SPACETRACK system.

Cost Data:

FY 1982 y Amt Ct. 45.0 Amt FY 1981 Qt Y A Amt FY 1980 Qty Ami

basis for FY 1982 Request: Procures peculiar support equipment and data for the upgrade of the detection radar at Thule, Greenland and radome replacements at other sites.

Otner base Maintenance & Support Equipment Data Sheet

P-1 Line Item: 186

Nomenclature: base/ALC Calibration Package

Mission/Description: The base/ALC metrology and calibration (METCAL) equipment program provides calibration standards grouped in a series of generic measurement packages or consoles, (Time and Low Frequency, Radio and Microwave Frequency, Temperature-Length-Volume-Vibration, Mass-Pressure-Flow-Accoustics-Optics-Luminous Intensity) to all major Air Force activities having a base Precision heasurement Equipment Laboratory (BPMEL). There are 116 BPMELs.

Cost Data:

FY 1982	Qty Ant	9.4
FY 1981	Qty	4.5
FY 1950	Qty Amt	3.7

basis for FY 1902 Request: To provide equipment to enable each major Air Force activity to attain standardized measurement and optimum self-sufficiency in the calibration and maintenance of critical precision measurement equipment (PME) required for daily base operational capability. Precise measurement is required to maintain the intra and interoperability of aircraft and ground weapon systems.

## Cther Base Maintenance & Support Equipment Data Sheet

P-1 Line item: 169

Nomenclature: Signal Generator 0.5 to 512 MHZ

Mission/Description: This is a general purpose commercial multi-application VHF-UHF radio frequency signal generator which produces modulated or unmodulated signals in frequency range of 0.5 to 512 MHz. It is used to test and align airborne and ground radio receivers and associated electronic equipment.

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Cost Data
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0

FY 1982	Qty Amt	700 6.1
FY 1961	Qty Amt	700 4.6
FY 1950	Qty Amt	700 4.4

basis for FY 1902 Request: Provides current state of the art signal generators to replace obsolete and unrepairable signal generators now in the inventory and to keep pace with modern technology.

## Other Base Maintenance & Support Equipment Data Snect

P-1 Line Item: 200

Nomenclature: Laser Acquisition Device (LAD)

mission/Description: Inis device attaches to the aircrew members helmet and is target acquisition and, it senses laser energy from a designated target and directs head motion until the designated target is within the aiming reticle. This reduces target acquisition time in the target area, promotes accuracy and minimizes danger due to loitering.

Cost Data:

.(In Millions of Dollars)

1982	Qt y Amt	9.9
FY	Š	350
<u>186</u>	Amt	6.9
FY 19	Qty Amt	178
FY 1980	ty Amt	1
	Θ	

Basis for FY 1962 Request: The FY 1982 request provides for procurement of an additional 350 units against an established requirement of 1050 units.

## Utner base Maintenance & Support Equipment Data Sheet

P-1 Line Item: 201

Nomenclature: Chemical and Biological Defense Program

Mission/Description: This program is for procurement of chemical and biological defense equipment to enhance survivability and enable AF units to conduct operations in a chemical warfare environment.

	FY 1982 QLY Amt	- 16.6
(In millions of polities)	FY 1981 Qty Amt	- 11.3
	FY 1980 QLY Amt	,

Cost Data:

basis tor FY 1982 Request: Provides funding for procurement of an aircrew eye-respirator system. Inis is a new respirator/blower system which provides filtered air, valsalva capability, and relieves the performance degradation imposed on aircrew members by the presently used equipment.

## Other Base Maintenance & Support Equipment Data Sheet

P-1 Line Item: 203

Nomenclature: base Mechanization Equipment

Mission/Description: The Air Force requires adequately equipped facilities in which to maintain and store weapon systems/supplies efficiently and productively. Modern equipment is needed to achieve this objective. The use of mechanized equipment eliminates multiple handling of materials and provides: responsiveness to maximum flexibility at minimum investment cost; simplification of parts inventory and maintenance tasks and safe and efficient operations.

(In Millions of Dollars)

Cost bata:

FY 1982 Qt y Amt	- 13.7
FY 1981 Qty Amt	- 13.4
FY 1980 Qty Ant	- 11.9

basis for FY 1982 kequest: The FY 1982 program includes sixteen projects at four of our five depots to support, supply, and maintain facilities and clgut projects at air bases to improve handling and storage of supplies. All projects are based on the need and are supported by formal economic analysis and industrial engineering studies which indicate a substantial costs saving and/or valid need.

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## Other base Maintenance & Support Equipment Data Sheet

P-1 Line item: 206

Nomenclature: Generators, 200Kw

Mission/Description: This generator provides mobile power for all applications where utility 150KW to 200KW, 50/60HZ power is required, such as hanger and ramps, tropospheric scatter radar, microwave communications agreement, test range support, runway lights, ground control approach and landing systems and control towers and field hospitals. The generator is one of the DoD standard generators developed under the DoD Mobile Electronic Power project.

(	(In Millions of Dollars)	
	Cost Data:	

Gty Ant	138 4.4
FY 1981 Qt.y Amt	1
FY 1980 Qty Amt	1

basis for FY 1902 Request: The request will provide funding for replacement of the old generators, which must be replaced because of excessive repair costs and the inability of industry to provide repair parts economically.

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## Other Base Maintenance a Support Equipment Data Sheet

P-1 Line item: 209

Nomencluture: Power Plant A/E 24 :-8

Mission/Description: Inis is a light weight and air transportable power plant consisting of two 60/126 KW gas turbine generator sets mounted on a pallet which includes a distribution panel, tuel system and cable storage. The units are designed for mobility and are essential for the operation of electronic equipment in deployed locations.

(In Millions of Dollars)

Cost Date:

Qty Ami	17 4.2
FY 16:(1) QUY Amt	18 4.0
CLY Ant	1

Basis for FY 1962 Request: Provides power units for communications and electronic equipment used by tectical air control systems of the regular forces and the Air National Guard.

## other base Maintenance & Support Equipment Data Sheet

P-1 Line Item: 211

Nomenclature: Base Procured Equipment

Mission/Description: bases and units throughout the Air Force require and are authorized equipment that must be acquired directly from GSA, DLA, one of the striviers, or from commercial concerns. The program provides funds for local procurement of this equipment, costing \$3,000 or more each, which is not centrally procured and managed by the Air Force.

# (In Millions of Dollars)

Cost Data:

	<u>PY 1982</u> <u>Qty</u> Amt	- 27.7
	FY 1981 Qt y Amt	- 26.7
•	FY 1980 Qty Amt	- 26.2

basis for FY 1962 Request: The request provides for procurement of authorized equipment to support day to day operation of 134 air bases/major installations and 2554 smaller installations. It also provides a minimum acceptable work and living environment air bases/major installations and 2554 smaller installations. It also includes field type equipment such as that used by the Us Atmy to for military and civilian members of the Air Force. It also includes field type equipment such as that used by the Us Atmy to support deployed units in the field.

## Other base Maintenance & Support Equipment Data Sheet

P-1 Line Item: 212

Nomenciature: Medical and Bental Equipment

MISSION/VESCIIPTION: Inis program provides medical and dental equipment for the Air Force Medical Service in support of a world-Wide comprehensive health care system. It supports hospitals, clinics, a global aeromedical evacuation system, physiological wine comprehensive health care system, provided and dental training facilities and laboratories.

(In Millions of Dollars) FY 1980 Qty Cost Bata:

 1980
 FY 1981
 FY 1982
 FY 1982

 Amt
 Qty
 Amt

 22.2
 - 31.0
 - 38.7

Basis for FY 1962 Request: it provides for replacement of equipment worn beyond economical repair; modernization of obsolete equipment; real property installed equipment for health care facilities and procurement of War Readiness equipment.

Ctner base Maintenance & Support Equipment Data Sheet

P-1 Line Item: 2;

Nomenclature: barr, , Aircraft Arresting System

danage or mailunction prevents normal acceleration and/or braking. It consists of an energy absorber or braking system attached to cables laying across the runway to engage an aircraft as it rolls over the cables when the system is engaged during emergen-Missiou/Description: Arresting systems are used to engage and safely stop aircraft during landing and take-off when aircraft

Cost Data:

(In Miliions of Dollars)

1582	Amt	7.7
FY	Qty Amt	30
186	Amt	2.3
FY	Qty Amt	18
980	Qty Ant	1.5
FY 1	917	18

above ground cable for arresting afficialt equipped with tail hooks. The BAK-14 permits the cable to be placed in a trench covered with metal plates over which a non-engaging afficialt may roll freely. It is raised to operating position during emergencies. The BAK-12 provides an It provides funding for two types of barriers, the BAK-12 and the BAK-14. basis for FY 1982 Request:

## Other Base Maintenance & Support Equipment Data Sheet

P-1 Line Item:

Central Aircraft Support System (CASS) Nomenclature:

CASS are centrally located with Air and electrical power distributed through underground manifolds to stations located on the dirhission/Description: Ine system is used by 1-38 aircraft on the ground. It supplies low pressure, high volume air for aircraft starting; utility air for hand-operated, air driven tools, 115 VAC, 400 Hz electrical power for use with aircraft electrical systems and test equipment; 60 Hz power for electrically operated hand tools and test equipment. The major equipment components of craft ramp.

	FY 1982 Gty Amt
(in Millions of Bollars)	Gty Ant
	RY 19EC QLY Aint
Cost Data:	

Amt

basis for FY 1982 Request: A test implemented in May 1978 showed a CASS life cycle (25 years) cost savings of nearly \$76 million versus standard support equipment at six ATC bases. The FY 82 request will provide funding for systems at William AFB, Arizona; volumbus AFB, hississippi; Vance AFB, Gklahoma; and Sneppard AFB, lexas.

## Other Base Maintenance & Support Equipment Data Sheet

P-1 Line Item: 217

Nomenclature: Pallet, Air Cargo, 108" x 88"

Aussion/Description: The HUU-6/E air cargo pallet is constructed on an aluminum rail (frame) with aluminum skins thermally bonded to a baira wood core. This pallet is designed for operation in the 463L cargo handling system which matches specialized material nandling equipment to the internal aircraft cargo system of the C-5, C-141, C-130, KC-10 and CRAF aircraft. They provide a means to expenite cargo handling and tainaround of aircraft in both peace and war environments.

10.3 FY 1982 X Amt Qt y 12,000 (In Millions of Dollars) 10.3 Amt FY 1981 Qty Ar 12,000 9.91 Amt FY 1980 20,000

cost Data:

Basis for FY 1982 Request: 12,000 pallets are required to replace condemnations and losses and to build toward an inventory objective sufficient to fully support the airlift requirement in war.

Uther Base Maintenance & Support Equipment Data Sheet

P-1 Line\_Item: 224

Nomenclature: Productivity Enhancement

Mission/Description: Inis program will provide funds for the Fast-Payback Capital Investment Program, a program to enhance productivity and reduce operating costs. Equipment purchased is identified by organizations throughout the Air Force with the commensurate savings and amortization data specifically identified. Amortization must be achieved quickly and items procured must be commercially available so they may be put into use in the minimum time.

Lust batu:

 FY 1980
 FY 1981
 FY 1982

 QLY
 Amt
 QLY
 Amt

 3.8
 4.5
 10.0

basis for PY 1962 Request: Provides funds to support four specific projects which are based on increasing productivity and reducing operating costs and provides additional funding to support additional projects as they develop thus promoting savings which cannot be captured in normal budget processes.

وعائلها وموادها وسينفي والمعافرة والمرورين فالمناه والمعافر والماما

## Other Base Maintenance & Support Equipment Data Sheet

P-1 Line Item: 226

Nomenclature: RDF Mobility Equipment

Mission/Description: Provides the first increment of equipment needed to support employment of the rapid deployment force (RDF in Southwest Asia. Inis equipment augments existing inventories to support one-half of the RDF at the six location beddowns required by RbJTF.

Cost Data:

FY 1982 Qty Amt	- 12.4
\d	
FY 1981	1
히	
FY 1980 Qty Ant	ı
FY Qty	í

basis for FY 1982 Request: Provides funding for procurement of general purpose and expandable maintenance shelters, water purification sets, refrigerators, and laundry equipment. These are needed to offset the lack of available host nation maintenance lacifies at beddown bases in deployed location and to support basic human needs. basis for FY 1962 Request:

## Other Base Maintenance & Support Equipment Data Sheet

P-1 Line Item: 230

Nomenclature: Scientific/Technical Intelligence

Mission/Description: This program provides data reduction, photo processing, and printing equipment for the Foreign Technology Division (FTD). FTD also supports Air Force and DOD inputs to the National Intelligence Estimates (NIEs), maintains the DOD scientific and Technical (S&1) intelligence reference library, and acts as DVD executive agent for radar and infrared intelligence. data processing.

(In Millions of Dollars)	
Cost Date:	

FY 1982 Qty Amt	3.1
<u>FY 1981</u> Qt y Amt	. 3.1
PY 1980 Qty Ami	i

Basis for FY 1982 Request: To provide improved data analysis and production capabilities, replace old and obsolescent equipment, and acquire the test and calibration instruments necessary to operate and maintain existing systems.

## Other Base Maintenance & Support Equipment Data Sheet

P-1 Line Item: 232

Nomenclature: Air Force Technical Application Center\*

Mission/Description: This program supports the Atomic Energy Detection System operated by the Air Force Technical Application Center. It provides the primary national technical means for verifying compliance of signatory states with terms of the Limited Test ban Treaty, Threshold Test Treaty, Peaceful Nuclear Explosion Treaty and the Comprehensive Test ban Treaty currrently under negotiation.

Cost Data:

 FY 1950
 FY 1981
 FY 1982

 Qty
 Amt
 Qty
 Amt

 8.3
 5.4
 11.6

(In Millions of Dollars)

Basis tor FY 1982 kequest: Provides a variety of equipment required for seismic,

## Other base Maintenance & Support Equipment Data Sheet

P-1 Line Item: 233

Nomenclature: Photo Processing/Interpretation System

factical forces require mobile photo reconnuissance processing facilities that can effectively deploy in support of tactical reconnaissance operations to accomplish original film processing, duplication/reproduction and production wission/Description:

cost Data:

 FY 1980
 FY 1981
 FY 1982

 LY
 Ant
 QLY
 Ant

 5.8

(in billions of Bollars)

basis for FY 1902 Request: The WS-430b Photo Processing and Interpretation System Was originally developed in 1965 to meet Vietnam requirements. It was produced in 1967 and estimated to neve five year system life. There are longstanding deficiencies associated with the existing WS-430b which have prompted the TAF to waive mobility requirements during operational readiness inspecity, (3) lack of production control/menagement facilities; (4) no control over large volume of enemical effluents; (5) major sheltion (OkI) to try to extend system's life. Deficiencies include: (i) large water consumption; (2) inadequate printing capabilter corrosion problems; (6) extremely poer work environment.

In addition ANG facilities will be equipped with a Report Entry/Edit station to speed up pnoto exploitation and proinc Wo-450p ennancement program will reduce/eliminate major deficiencies in the existing system for the active force and Air National Guard (ANG) Lactical Reconnaissance Squadrons (TRS). Shelters will be refurbished, wet film processing rate will be doubled with reduced water requirement, wet duplication will be replaced with dry silver processing and pollutant discharge will duct distribution.

### Uther base Maintenance & Support Equipment Data Sheet

P-1 Line Item: 237

Nomenclature: Industrial Preparedness

requirements. It includes incustrial preparedness planning, modernization and maintenance on government-owned production facilities, and a manutacturing technology procram which is designed to improve productivity and lower costs. Mission/Description: This program provides the resources required for all plans, actions, or measures necessary to establish or maintain an industrial base, both government-owned and privately-owned to support current, wartime or other contingency military

(In Millions of Dollars)	
cost bata:	

FY 1982	Qty Amt	- 10.5
FY 1981	Qt y Amt	- 10.4
FY 1980	(tcy Ant	- 2.2

basis for FY 1932 Request: The request represents a continuing effort to support industrial preparedness objectives primarily for the Electromagnetic window/Electronics focal area and the Munitions focal area of the Manufacturing lecinology Program. Emphasis is on the expendable portion of munitions and ground based sensing and electronic sub-systems in support of factical, strategic and space systems.

### DATE